DOCUMENT RESUME

ED 122 809 IR 003 427

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TITLE Does Sesame Street Teach?
INSTITUTION Children's Television Workshop, New York, N.Y.
PUB DATE Oct 70
NOTE 167p.; Not available in hard copy due to marginal print quality of original document

EDRS PRICE MF-$0.83 Plus Postage. HC Not Available from EDRS.
DESCRIPTORS Achievement; Comparative Analysis; Early Childhood Education; Educational Research; *Educational Television; Formative Evaluation; Intelligence Differences; *Preschool Children; Preschool Education; *Preschool Learning; Primary Education; Public Television; Racial Differences; Sex Differences; Tables (Data); *Television Research; Television Viewing
IDENTIFIERS Childrens Television Workshop; *Sesame Street

ABSTRACT

In 1969-70, the research department of the Children's Television Workshop (CTW) established research sites in day care centers to provide feedback to the CTW staff and to conduct a controlled study of the educational benefits derived from viewing the program "Sesame Street." A randomized sample of 200 preschool students was given an extensive battery of pretests and then divided into subsamples of viewers and nonviewers. After the first three months of viewing in the fall of 1969, the students were retested. The results consistently favored the students who had been watching "Sesame Street." The appendixes of this report provide a detailed summary of the pre- and posttest results, including subsamples according to sex, ethnicity, and age. (EMH)

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DOES SESAME STREET TEACH?

PERFORMANCE GAINS OF PRESCHOOL VIEWERS AND NONVIEWERS

JACK MILLER AND ROM SKVARCIUS
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NASHVILLE, TENNESSEE

OCTOBER 1970

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DOES SESAME STREET TEACH?

Jack Miller and Rom Skvarcius

The phenomenal acceptance of the Children's Television Workshop (CTW) production, "Sesame Street," has been documented in numerous contemporary publications. Honors and acclaim have been extended from divers sources, financing for a second year of programming assured, and the image of television as a stimulating educational medium considerably refurbished.

Testimonials from critics, parents, rating bureaus, and educators notwithstanding, the legitimate question remains: Do preschool children learn as a direct result of watching Sesame Street? This report summarizes results from a pretest-posttest, experimental-control study of viewers and nonviewers over the first three months of program operation.

Procedures

In 1969-70 the research department of Children's Television Workshop established formative research sites in day care centers located in cities of Maine, New York, and Tennessee. Primary purpose of the effort was provision of rapid feedback to the CTW production staff; in addition to the usual industry ratings based on number of viewers, Sesame Street producers, directors, writers, and cast would be provided information on how well they were communicating to their young audience. Design and execution of formative research as an adjunct to educational programming was relatively new

in educational television circles, and consequently attracted a considerable amount of attention.

Operation of a feedback research model presented something of a dilemma to the research department and its advisors, however. How rigorous, in the classic sense, should such work become? Some might advocate that formative studies should be conducted in a "quick and dirty" fashion, temporizing on the customary requirements of design, test administration, scoring nicities, sampling patterns, and separation of experimental and control conditions. Such an approach was rejected on the grounds that it would imperil the validity of results; advice to the production staff might be grossly misleading. Furthermore, while a carefully controlled study would entail modest additional expense, it would permit valuable comparisions between viewers and nonviewers on a pretest-posttest basis.

Sampling. More than 200 preschool subjects were divided randomly into viewing and nonviewing groups. Viewers watched Sesame Street each day in groups of 8-12 children, while the nonviewers played outdoors or engaged in alternate activities. Adults were present during the viewing, but were asked not to provide follow-up, review, or deliberately related instruction to the children. On the other hand, no attempt was made to eliminate or modify any part of the normal day-care instructional program.

Instruments. An extensive series of pretests was administered individually to all subjects. These included the Peabody Picture Vocabulary Test (PPVT), as a measure of I.Q., and a content battery developed for CTW by the

Educational Testing Service. Eight subscales within the battery generally paralleled the programming objectives of Sesame Street for the year. These included identification of (1) parts of the human body, (2) letters of the alphabet, (3) geometric forms, and (4) numbers; (5) sorting dissimilar items from a series, (6) solving relationship problems, (7) classifying objects, and (8) solving puzzles built around inconsistencies. Combining scores on the eight subscales yielded a composite score for total performance. Table 1 presents basic pretest data on the number of items, means, and standard deviations on the content battery. The tests were repeated later as a measure of performance gain over time.

Table 1: Pretest Range, Mean, and Variability Data

Subscale	Items	Range		Total Sample		
		Min.	Max.	Mean	SD	
Body Parts	42	11	42	34.70	5.89	
Letters	64	9	63	27.72	10.79	
Forms	8	0	8	3.95	2.05	
Numbers	54	5	50	28.49	10.97	
Sorting Skills	12	3	12	8.48	1.99	
Relationships	10	1	10	7.49	1.91	
Classifications	18	0	18	10.05	4.32	
Puzzles	10	0	10	5.42	2.28	
Composite	218	49	208	126.30	32.39	N = 211

The obvious hypothesis was that subjects who regularly watched Sesame Street would make greater gains (All preschool children are presumed to be engaged in significant learnings, and will show gains over any appreciable

span of time), than their contemporaries who did not watch the show. Control variables to permit examination of program effectiveness within subgroups of the preschool population included race, I.Q., sex, and age of the subjects.

Test administrators were not informed which children were viewers and which were nonviewers, nor were supervisory personnel in the day care centers made privy to the details of test contents or responses of individual children. Scoring and data analyses were performed on the computer facilities of George Peabody College for Teachers in Nashville, Tennessee.

Results

This report covers the first three months of viewing in fall 1969. It is limited to that period for two reasons. First, the risk of control group contamination became progressively greater as time wore on. To assess the level of contamination, character familiarity tests were administered to all subjects at the end of three months and again at the end of six months. After three months, most subjects in the control group still were unable to correctly identify members of the Sesame Street cast. By the end of the academic year, however, this had changed dramatically; Sesame Street had become such an all-pervasive influence in the American preschool subculture that it probably would have been difficult to locate any large and representative group of children unfamiliar with its main characters.

A second consideration was the possibility of contamination between the objectives of formative research, with feedback to the production staff, and

an inferential pretest-posttest design. This point might be argued indefinitely by research design specialists, many holding that comparisons remain valid as measures of program effectiveness when feedback is built deliberately into an experimental condition. Others would insist that all treatment procedures be set in advance and that no modifications be undertaken as a result of subject performance on criterion measures. Fortunately, the question remained moot at the three months juncture. Normal time lag between testing, scoring, and report printouts--plus the lead time necessary in television production --meant that modifications of Sesame Street based on formative research reports did not occur until after the three-months data were gathered.

Preliminaries. Research on human behavior and learning must be conducted with extreme caution. Many are the pitfalls, particularly where very young children are involved. Two important contingencies were explored before standard analyses of the data were undertaken.

The first was to confirm that experimental and control groups were equivalent when the study was initiated. Since assignment to viewing and nonviewing groups at each site had been accomplished through use of a table of random numbers, variations due to sex, race, I.Q., experiential background, socioeconomic status, and myriad other factors might be assumed to be equivalent for the two groups. Still, prudence suggested a test of this equivalence before proceeding further.

One-way analyses of variance (ANOVA) comparisons were run on the pretest performance of subjects in the experimental and control groups for

each of the nine basic measures used in the study. The results are shown in Table 2. (Means and complete ANOVA summary tables will be found in Appendix A.)

Table 2: Pretest F-Ratios for Experimental and Control Groups

Subscale	Group Means		E. vs C F-Ratios*	
	Experimental	Control		
Body Parts	35.03	34.62	.59	
Letters	27.67	28.31	.30	
Forms	3.97	3.93	.17	
Numbers	27.64	29.72	2.72	
Sorting Skills	8.38	8.65	1.03	
Relationships	7.54	7.47	.07	
Classifications	10.01	10.33	.40	
Puzzles	5.35	5.62	1.04	Exp. N = 110 Con. N = 101
Composite	125.59	128.64	.42	

* None of the differences in means was statistically significant. Probabilities ranged from .10 to approximately .80.

The results make it evident that systematic sampling error resulting in nonequivalence of experimental and control groups did not occur. Indeed, pretest performance presented an almost ideal example of the random variation to be expected in unmatched groups drawn from the same overall population. Potential for learning likewise was nearly identical in the two groups: mean I.Q. among those designated to be viewers was 97.38 on the PPVT; among the nonviewers it was 98.24.

A second preliminary analysis explored the possibility that tests alone would teach. Questions in a personal interview often stimulate interest;

sometimes they may trigger significant learning. To assess this phenomenon, viewing and nonviewing groups were further separated randomly into three subgroups each (six in all). One-third of the children was tested four times, one-third three times, and one-third only twice. Table 3 summarizes the pattern and timing of these tests.

Table 3: Testing Patterns for Viewing (E) and Nonviewing (C) Groups

Group	Test Administrations				Total Tests
	Pretest	3-Weeks	6-Weeks	3-Months	
E_1	X	X	X	X	4
C_1	X	X	X	X	4
E_2	X		X	X	3
C_2	X		X	X	3
E_3	X			X	2
C_3	X			X	2

Table 4 presents group means for subjects who were tested two, three, and four times during the course of the study, and F-ratios for comparisons of mean performance among these three groups. As the data show, the number of times subjects were exposed to the criterion measure was a negligible influence on their overall performance. (Appendix B contains means and complete ANOVA summary tables on the testing factor.)

Table 4: Comparisons of Groups Tested Two, Three, and Four Times

Subscale	Group Means By Times Tested			Testing Factor F-Ratio*	Number of Tests/Gains F-Ratio*
	Four	Three	Two		
Body Parts	36.38	36.89	35.60	.96	.44
Letters	32.71	32.99	31.57	.29	.62
Forms	4.52	4.92	4.48	1.26	1.21
Numbers	31.81	33.02	31.10	.53	.57
Sorting Skills	9.28	9.78	9.26	2.19	2.24
Relationships	8.04	7.98	7.98	.04	1.27
Classifications	12.02	11.98	11.52	.37	2.47
Puzzles	6.62	6.50	6.24	.65	1.21
Composite	141.62	143.63	138.37	.48	.97

* No significant differences. Probabilities ranged from .11 to about .90.

Main Pretest-Posttest Analyses. With the possibilities of pretest bias and testing effect explored, a series of analyses was undertaken to discover if gains made by subjects who had watched Sesame Street were significantly different from those who had not. Figure 1 shows the design for a series of two-way ANOVAs comparing performance on each subscale and the composite.

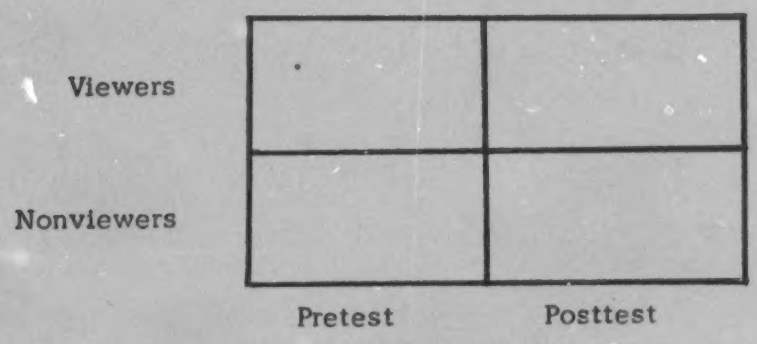

Figure 1: Repeated Measures ANOVA Design for Data Analyses

Results of the pretest-posttest analyses are summarized in Table 5, below. (Means and ANOVA summary tables for each of the nine variables may be found in Appendix C.)

Table 5: Posttest Means and Overall Gains by Viewing and Nonviewing Subjects

Subscale	Viewing Group		Nonviewing Group		Exp.-C. Pre-Post F-Ratio
	Posttest	Gain	Posttest	Gain	
Body Parts	38.02	2.99	37.48	2.86	.04
Letters	38.84	11.17	35.41	7.10	11.87**
Forms	5.59	1.62	4.92	.99	4.70*
Numbers	35.16	7.52	34.61	4.89	9.26**
Sorting Skills	10.63	2.25	9.90	1.25	14.41**
Relationships	8.35	.81	8.46	.99	.54
Classifications	13.93	3.92	12.99	2.66	4.95*
Puzzles	7.58	2.23	7.19	1.57	4.77*
Composite	158.09	32.50	150.97	22.33	17.65**

* Significant at the .05 level.
** Significant at the .01 level.

Children who viewed Sesame Street regularly made consistently greater gains than did those who engaged in alternative activities. The greater gains of the viewers were statistically significant on six of the eight subscales. Pretest scores on the remaining two subscales--the Body Parts and Relationships tests--were so near the maximum attainable that little possibility existed for score improvement. The damping effect of these two components, however, was not so great that it prevented the composite mean gain of the viewers from exceeding that of nonviewers at the .01 level.

Effects Among Selected Subgroups. Instructional packages that prove effective with one group of children all to frequently turn out to be rather ineffective with other subjects. Since Sesame Street was broadcast to millions of children, serious questions arise as to its appropriateness with certain important subgroups. Through subanalyses of the data, answers were sought to four basic questions:

1. Was Sesame Street effective for both Negro and white children?

First, it should be made clear that comparison of the performance of one racial group to another was not a major purpose of this research. Numerous previous studies have been addressed to that question, often with the conclusion that low SES urban Negro children tend as a group to score lower on standard academic measures and to respond less favorably to instruction than middle class whites. An initial analysis, dividing the sample into four subcategories (viewers and nonviewers by race) revealed a triple interaction on the composite score among test gain, race, and treatment factors. Therefore, a separate analysis was undertaken for each racial subgroup. Summary data for Negro children are presented in Table 6; for white children in Table 7. (Full ANOVA summaries, means, and related data will be found in Appendix D.)

Essentially, the data in Tables 6 and 7 show that while Negro viewers did tend to score lower on the pretests, they made gains placing them near the means of all viewers by the end of three months.

Table 6: Pretest-Posttest Gains by Viewing and Nonviewing Negro Children

Subscale	Group Means				Groups By Trials F-Ratio
	Viewers		Nonviewers		
	Pretest	Posttest	Pretest	Posttest	
Body Parts	32.62	37.53	33.37	36.46	2.96
Letters	24.41	38.81	24.68	33.94	6.69*
Forms	3.34	6.00	4.14	5.43	9.18**
Numbers	23.31	32.72	24.43	30.51	5.35*
Sorting Skills	7.22	10.47	8.23	9.43	24.34**
Relationships	6.91	8.34	6.97	8.11	.50
Classifications	9.41	12.81	9.00	11.43	1.23
Puzzles	4.31	6.81	4.74	6.48	2.57
Composite	111.53	153.50	115.57	141.80	16.04**

* Significant at the .05 level.
** Significant at the .01 level.

Table 7: Pretest-Posttest Gains by Viewing and Nonviewing White Children

Subscale	Group Means				Groups By Trials F-Ratio
	Viewers		Nonviewers		
	Pretest	Posttest	Pretest	Posttest	
Body Parts	36.22	38.26	35.35	38.08	1.04
Letters	29.28	38.85	30.42	36.27	6.99**
Forms	4.28	5.38	3.80	4.62	.66
Numbers	29.77	36.37	32.80	37.00	5.10*
Sorting Skills	8.95	10.71	8.90	10.18	2.17
Relationships	7.85	8.35	7.77	8.67	1.97
Classifications	10.31	14.48	11.10	13.90	3.53
Puzzles	5.86	7.95	6.13	7.60	2.59
Composite	132.51	160.35	136.27	156.32	7.37**

* Significant at the .05 level.
** Significant at the .01 level.

Although the higher subscale means of viewers within a racial subgroup were not always statistically significant, the cumulative effect of these differences was manifested in the total score. Among both white and Negro children, composite score gains made by the viewers exceeded those of the nonviewers at the .01 level.

2. Did both girls and boys benefit from watching Sesame Street?

With the exception of the subscale on sorting skills--where the girls as an overall group scored much higher than the boys on the pretest and only slightly higher on the posttest, giving boys a higher gain--there were no significant differences in analyses related to the sex of subjects. Reactions of boys and girls were nearly identical, leading to the conclusion that Sesame Street was as beneficial for one group as the other. (Appendix E contains viewer-nonviewer, male-female, pretest-posttest means and ANOVA summaries.)

3. Was Sesame Street effective for four as well as five year old children?

A three-way analysis of variance (age, treatment, trials) indicated no overall difference based on age. While fives tended to make higher pretest scores than the four year olds, gains were quite similar. On two subscales with low ceilings, the fours actually made greater gains than the fives. Composite score for the two age groups was decidedly at the chance level (an F-ratio of less than .15).

Data for viewers and nonviewers within the two age levels are presented in Tables 8 and 9.

Table 8: Pretest-Posttest Gains by Viewing and Nonviewing Four Year Olds

Subscale	Group Means				Groups By Trials F-Ratio
	Viewers		Nonviewers		
	Pretest	Posttest	Pretest	Posttest	
Body Parts	33.38	36.97	30.91	35.09	.27
Letters	24.09	33.88	23.84	28.38	8.43**
Forms	3.06	5.20	2.94	4.34	2.33
Numbers	21.12	29.91	22.09	25.97	9.65**
Sorting Skills	7.76	9.97	7.72	8.88	4.15*
Relationships	7.00	8.03	6.56	7.53	.02
Classifications	8.38	12.32	7.03	10.44	.25
Puzzles	4.62	6.62	3.94	5.91	.00
Composite	109.74	143.44	105.03	126.78	8.23**

* Significant at the .05 level.
** Significant at the .01 level.

Table 9: Pretest-Posttest Gains by Viewing and Nonviewing Five Year Olds

Subscale	Group Means				Groups By Trials F-Ratio
	Viewers		Nonviewers		
	Pretest	Posttest	Pretest	Posttest	
Body Parts	36.51	38.94	36.47	38.72	.06
Letters	29.96	41.53	29.74	37.72	5.17*
Forms	4.47	5.91	4.38	5.23	2.41
Numbers	31.00	38.15	33.09	38.43	2.99
Sorting Skills	8.62	10.98	9.15	10.38	10.85**
Relationships	7.94	8.55	7.89	9.04	2.90
Classifications	10.49	14.94	12.06	14.28	9.86**
Puzzles	5.68	8.23	6.45	7.85	8.04**
Composite	134.42	166.85	139.23	161.49	11.77**

* Significant at the .05 level.
** Significant at the .01 level.

The data in Tables 8 and 9 indicate again the consistent superiority of performance among both four and five year old children who watched Sesame Street, compared to similar groups that did not regularly watch. Complete data for four and five year old subjects appear in Appendix F. The appendix also includes data on a very limited sample of six year old children (Total N = 19) who were a part of the overall sample. Because of the small number and the rather high pretest scores of the six year olds, the comparisons revealed no differences that were statistically significant between gains of nonviewers and viewers at this age level.

4. What effect did I. Q. level have on ability to learn from Sesame Street?

Answers to the I. Q. question are not completely clear, although much of the ambiguity may be attributed to measurement limitations. I. Q. in the sample was remarkably broad--a range of 45 through 155 on the PPVT. Overall, there was a numerically slight but significantly negative skew to the distribution, so that the grand mean for all subjects was near 98 rather than the "ideal" 100 points. The I. Q. distribution was normal enough so that scores occured most frequently around the mean. Thus, when viewers and nonviewers were separated into groups of average (90-110), low (below 90), and high (above 110) I. Q., the middle group was largest. To achieve cell equality, subjects were eliminated randomly until 20 remained in each of the six I. Q. by treatment subgroups.

Appendix G contains means and ANOVA summary tables for both three-way (I. Q. level, trials, and treatment) and two-way (groups by treatment within I. Q. levels) analyses of variance. In general, these data show that lower I. Q. viewers outgained nonviewers at a more impressive level (.01 on the composite score) than did viewers in the average ability group, where viewers exceeded composite score gains of nonviewers at the .05 level. While there was a similar trend toward greater performance increments among viewers in the high I. Q. group, the differences were not statistically significant.

A plausible explanation for these slightly mixed results would involve mild regression toward the mean in low and high ability groups, combined with a criterion battery of insufficient difficulty to fully assess performance improvements among high I. Q. subjects. An alternative possibility is that since Sesame Street was geared primarily to needs of younger children it consequently was most beneficial to those with the lowest mental age. In that case, a child chronologically midway in the five year age group, with an I. Q. of 110 or higher, would mentally exceed the target preschool age.

The most satisfactory explanation may be some combination of the two advanced above. In any event, it can be stated that Sesame Street in no way retarded the progress of high ability children, while significantly enhancing the intellectual development of average and below average boys and girls.

Conclusion

The answer to the question posed in the title of this report appears both definite and affirmative. Despite the usual difficulties inherent in research with children too young to read or write, final results consistently favored the subjects who had been watching Sesame Street. The probability of observed differences in composite score gains occurring by chance alone was computed as approximately one in ten thousand ($P = .0001$).

It was encouraging also to discover that the show was not unduly selective in its usefulness. While achievement differences on factors such as age and academic aptitude did appear -- boys and girls, fours and fives, white and black, low and average ability -- all groups experienced added learning increments as a result of watching Sesame Street. For many persons associated with the CTW project, extra satisfaction will come from knowledge that Sesame Street was a positive force in the lives of very young, inner city children; a stimulating and educationally valuable program is now available to this special group of forgotten Americans.

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PERFORMANCE GAINS OF PRESCHOOL VIEWERS AND NONVIEWERS

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LIST OF APPRENDIXES

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G . . . . . PRETEST-POSTTEST MEANS AND ANOVA SUMMARIES BY I. Q. LEVELS OF SUBJECTS

PRETEST COMPARISONS OF EXPERIMENTAL AND CONTROL GROUPS

IUP MEANS

1	2
27.336	28.148

VARIABLE 3 ANALYSIS. Forms

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	4.188	210.		
GROUPS	0.733	1.	0.1744	0.6801
ERROR (G)	4.204	209.		

IUP MEANS

1	2
4.009	3.891

VARIABLE 4 ANALYSIS. Numbers

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	120.270	210.		
GROUPS	324.406	1.	2.7193	0.0965
ERROR (G)	119.293	209.		

IUP MEANS

1	2
27.300	29.782

VARIABLE 5 ANALYSIS. Sorting

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	3.965	210.		
GROUPS	4.078	1.	1.0286	0.3125
ERROR (G)	3.964	209.		

IUP MEANS

1	2
8.345	8.623

VARIABLE 6 ANALYSIS. IQ,

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	263.119	210.		

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V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

  TREATMENT BREACKDOWN.  (PRETEST)

 9 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 1 TRIAL(S) PER SUBJECT.
 6 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
 2 SCORE(S) ON CARD 2.
 1 SCORE(S) ON CARD 3.
 2 SCORE(S) ON CARD 4.
 2 SCORE(S) ON CARD 5.
 1 SCORE(S) ON CARD 6.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(57X,F3.0)

(48X,F3.0,9X,F3.0)

(69X,F3.0)

(54X,F3.0,6X,F3.0)

(45X,F3.0,24X,F3.0)

(51X,F3.0)

GROUP 1.  110 SUBJECTS.      EXPERIMENTAL GROUP.

GROUP 2.  101 SUBJECTS.      CONTROL GROUP.


VARIABLE 1 ANALYSIS.  Body Parts

SOURCE      MEAN SQUARE     D.F.     F-RATIO       P

TOTAL         34.724        210.
GROUPS        20.500          1.      0.5892     0.5500
ERROR (G)     34.792        209.


GROUP MEANS

          1        2
       35.000   34.376


VARIABLE 2 ANALYSIS.  Letters

SOURCE      MEAN SQUARE     D.F.     F-RATIO       P

TOTAL        116.400        210.
GROUPS        34.718          1.      0.2972     0.5930
ERROR (G)    116.791        209.
```

GROUPS	38.500	1.	0.1457	0.7049
ERROR (G)	264.193	209.		

GROUP MEANS

1	2
97.381	98.237

VARIABLE 7 ANALYSIS. la Relation

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	3.660	210.		
GROUPS	0.257	1.	0.0701	0.7875
ERROR (G)	3.676	209.		

GROUP MEANS

1	2
7.454	7.524

VARIABLE 8 ANALYSIS. Classification

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	18.649	210.		
GROUPS	7.398	1.	0.3955	0.5373
ERROR (G)	18.703	209.		

GROUP MEANS

1	2
9.872	10.247

VARIABLE 9 ANALYSIS. Puzzles

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	5.187	210.		
GROUPS	5.409	1.	1.0430	0.3090
ERROR (G)	5.186	209.		

GROUP MEANS

1	2
5.263	5.584

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 PRETEST TOTAL SCORE.

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 1 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0)

GROUP 1.   97 SUBJECTS.      EXPERIMENTAL GROUP

GROUP 2.   95 SUBJECTS.      CONTROL GROUP


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL          1053.612      191.
 GROUPS         448.000        1.       0.4239      0.5229
 ERROR (G)     1056.800      190.


GROUP MEANS

          1         2
      125.587   128.642
```

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE FAC
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

BODY PARTS TEST

APPENDIX B

ANOVA COMPARISONS OF SUBJECTS TESTED

TWO, THREE, AND FOUR TIMES

```
 2 A FACET LEVELS
 3 B FACET LEVELS
 2 C FACET LEVELS
 1 CARD(S)-PER-SUBJECT
 2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

   30 SUBJECTS IN GROUP  1.   GROUP 1 EXPERIMENTAL.

   30 SUBJECTS IN GROUP  2.   GROUP 2 EXPERIMENTAL.

   30 SUBJECTS IN GROUP  3.   GROUP 3 EXPERIMENTAL

   30 SUBJECTS IN GROUP  4.   GROUP 1 CONTROL.

   30 SUBJECTS IN GROUP  5.   GROUP 2 CONTROL.

   30 SUBJECTS IN GROUP  6.   GROUP 3 CONTROL.
```

SOURCE	SS	DF	MS	F	P
TOTAL	11392.00	359			
BETWEEN SUBJECTS	9460.00	179			
A (VIEWERS NON VIEWERS)	12.12	1	12.12	0.229	0.6383
B (NUMBER OF TESTS)	101.43	2	50.71	0.958	0.6124
A X B	136.62	2	68.31	1.290	0.2769
ERROR (BETWEEN)	9209.81	174	52.92		
WITHIN SUBJECTS	1932.00	180			
C (TESTING PERIOD)	688.87	1	688.87	101.140	0.0000
A X C	21.50	1	21.50	3.156	0.0736
B X C	6.00	2	3.00	0.440	0.6503
A X B X C	30.50	2	15.25	2.239	0.1074
ERROR (WITHIN)	1185.12	174	6.81		

MEANS FOR ALL EFFECTS

A MAIN

1	2
36.472	36.105

B MAIN

1	2	3
36.375	36.891	35.600

C MAIN

1	2
34.905	37.672

A BY B

	1	2	3
1	36.300	36.483	36.633
2	36.450	37.300	34.566

A BY C

	1	2
1	34.844	38.100
2	34.966	37.244

B BY C

	1	2
1	34.833	37.916
2	35.666	38.116
3	34.216	36.983

CELL MEANS (BLOCKS = C LEVELS)

	1	2	3
1	34.566	34.633	35.333
2	35.100	36.700	33.100

	1	2	3
1	38.033	38.333	37.933
2	37.800	37.900	36.033

```
V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE FACT
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

     LETTERS TEST.

 2 A FACET LEVELS
 3 B FACET LEVELS
 2 C FACET LEVELS
 1 CARD(S)-PER-SUBJECT
 2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

   30 SUBJECTS IN GROUP  1.   GROUP 1 EXPERIMENTAL.

   30 SUBJECTS IN GROUP  2.   GROUP 2 EXPERIMENTAL.

   30 SUBJECTS IN GROUP  3.   GROUP 3 EXPERIMENTAL

   30 SUBJECTS IN GROUP  4.   GROUP 1 CONTROL.

   30 SUBJECTS IN GROUP  5.   GROUP 2 CONTROL.

   30 SUBJECTS IN GROUP  6.   GROUP 3 CONTROL.
```

SOURCE	SS	DF	MS	F	P
TOTAL	55141.88	359			
BETWEEN SUBJECTS	41415.88	179			
A (VIEWERS NON VIEWERS)	104.56	1	104.56	0.444	0.5128
B (NUMBER OF TESTS)	136.56	2	68.28	0.290	0.7524
A X B	286.31	2	143.15	0.609	0.5499
ERROR (BETWEEN)	40888.44	174	234.99		
WITHIN SUBJECTS	13726.00	180			
C (TESTING PERIOD)	7471.12	1	7471.12	220.903	0.0000
A X C	302.43	1	302.43	8.942	0.0035
B X C	42.31	2	21.15	0.625	0.5411
A X B X C	25.31	2	12.65	0.374	0.6939
ERROR (WITHIN)	5884.81	174	33.82		

```
MEANS FOR ALL EFFECTS

A MAIN
          1          2
     32.961     31.883

B MAIN
          1          2          3
     32.708     32.991     31.566

C MAIN
          1          2
     27.866     36.977

A BY B
```

	1	2	3
1	32.383	33.166	33.333
2	33.033	32.816	29.800

A BY C

	1	2
1	27.488	38.433
2	28.244	35.522

B BY C

	1	2
1	27.766	37.650
2	28.883	37.100
3	2c.950	36.183

CELL MEANS (BLOCKS = C LEVELS)

	1	2	3
1	26.700	27.766	28.000
2	28.833	30.000	25.900

	1	2	3
1	38.066	38.566	38.666
2	37.233	35.633	33.700

```
V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE FACT
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

     FORMS TEST.

 2 A FACET LEVELS
 3 B FACET LEVELS
 2 C FACET LEVELS
 1 CARD(S)-PER-SUBJECT
 2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

   30 SUBJECTS IN GROUP  1.   GROUP 1 EXPERIMENTAL.

   30 SUBJECTS IN GROUP  2.   GROUP 2 EXPERIMENTAL.

   30 SUBJECTS IN GROUP  3.   GROUP 3 EXPERIMENTAL

   30 SUBJECTS IN GROUP  4.   GROUP 1 CONTROL.

   30 SUBJECTS IN GROUP  5.   GROUP 2 CONTROL.

   30 SUBJECTS IN GROUP  6.   GROUP 3 CONTROL.
```

SOURCE	SS	DF	MS	F	P
TOTAL	1521.05	359			
BETWEEN SUBJECTS	998.05	179			
A (VIEWERS NON VIEWERS)	16.04	1	16.04	2.890	0.0869
B (NUMBER OF TESTS)	13.95	2	6.97	1.256	0.2864
A X B	2.15	2	1.07	0.194	0.8254
ERROR (BETWEEN)	965.90	174	5.55		
WITHIN SUBJECTS	523.00	180			
C (TESTING PERIOD)	162.67	1	162.67	81.847	0.0000
A X C	8.71	1	8.71	4.383	0.0354
B X C	4.82	2	2.41	1.212	0.2995
A X B X C	0.95	2	0.47	0.240	0.7896
ERROR (WITHIN)	345.83	174	1.98		

```
MEANS FOR ALL EFFECTS

A MAIN
          1          2
      4.850      4.427

B MAIN
          1          2          3
      4.516      4.916      4.483

C MAIN
          1          2
      3.966      5.311

A BY B
```

6

	1	2	3
1	4.650	5.100	4.800
2	4.383	4.733	4.166

A BY C

	1	2
1	4.022	5.677
2	3.911	4.944

B BY C

	1	2
1	3.850	5.183
2	4.383	5.450
3	3.666	5.300

CELL MEANS (BLOCKS = C LEVELS)

	1	2	3
1	3.800	4.366	3.900
2	3.900	4.400	3.433

	1	2	3
1	5.500	5.833	5.700
2	4.866	5.066	4.900

```
V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE FACTO
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

     NUMBERS TEST.

 2 A FACET LEVELS
 3 B FACET LEVELS
 2 C FACET LEVELS
 1 CARD(S)-PER-SUBJECT
 2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

   30 SUBJECTS IN GROUP  1.   GROUP 1 EXPERIMENTAL.

   30 SUBJECTS IN GROUP  2.   GROUP 2 EXPERIMENTAL.

   30 SUBJECTS IN GROUP  3.   GROUP 3 EXPERIMENTAL

   30 SUBJECTS IN GROUP  4.   GROUP 1 CONTROL.

   30 SUBJECTS IN GROUP  5.   GROUP 2 CONTROL.

   30 SUBJECTS IN GROUP  6.   GROUP 3 CONTROL.
```

SOURCE	SS	DF	MS	F	P
TOTAL	44500.82	359			
BETWEEN SUBJECTS	37560.32	179			
A (VIEWERS NON VIEWERS)	53.68	1	53.68	0.252	0.6220
B (NUMBER OF TESTS)	225.43	2	112.71	0.530	0.5951
A X B	282.12	2	141.06	0.663	0.5210
ERROR (BETWEEN)	36999.07	174	212.63		
WITHIN SUBJECTS	6940.50	180			
C (TESTING PERIOD)	3515.62	1	3515.62	190.737	0.0000
A X C	186.25	1	186.25	10.104	0.0021
B X C	21.00	2	10.50	0.569	0.5721
A X B X C	10.50	2	5.25	0.284	0.7566
ERROR (WITHIN)	3207.12	174	18.43		

```
MEANS FOR ALL EFFECTS

A MAIN
          1          2
     31.788     32.361

B MAIN
          1          2          3
     31.808     33.016     31.100

C MAIN
          1          2
     28.850     35.100

A BY B
```

	1	2	3
1	30.450	32.433	31.883
2	33.166	33.600	30.316

A BY C

	1	2
1	27.744	35.433
2	29.955	34.766

B BY C

	1	2
1	28.500	35.116
2	30.233	35.800
3	27.816	34.383

CELL MEANS (BLOCKS = C LEVELS)

	1	2	3
1	26.400	28.733	28.100
2	30.600	31.733	27.533

	1	2	3
1	34.500	36.133	35.666
2	35.733	35.466	33.100

```
V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE FA
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

     SORTING SKILLS.

 2 A FACET LEVELS
 3 B FACET LEVELS
 2 C FACET LEVELS
 1 CARD(S)-PER-SUBJECT
 2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

   30 SUBJECTS IN GROUP  1.   GROUP 1 EXPERIMENTAL.

   30 SUBJECTS IN GROUP  2.   GROUP 2 EXPERIMENTAL.

   30 SUBJECTS IN GROUP  3.   GROUP 3 EXPERIMENTAL

   30 SUBJECTS IN GROUP  4.   GROUP 1 CONTROL.

   30 SUBJECTS IN GROUP  5.   GROUP 2 CONTROL.

   30 SUBJECTS IN GROUP  6.   GROUP 3 CONTROL.
```

SOURCE	SS	DF	MS	F	P
TOTAL	1436.53	359			
BETWEEN SUBJECTS	847.03	179			
A (VIEWERS NON VIEWERS)	3.02	1	3.02	0.641	0.5699
B (NUMBER OF TESTS)	20.69	2	10.34	2.191	0.1126
A X B	1.85	2	0.92	0.196	0.8232
ERROR (BETWEEN)	821.47	174	4.72		
WITHIN SUBJECTS	589.50	180			
C (TESTING PERIOD)	279.13	1	279.13	177.919	0.0000
A X C	28.33	1	28.33	18.058	0.0001
B X C	7.01	2	3.50	2.235	0.1078
A X B X C	2.02	2	1.01	0.646	0.5301
ERROR (WITHIN)	272.98	174	1.56		

MEANS FOR ALL EFFECTS

A MAIN

1	2
9.527	9.344

B MAIN

1	2	3
9.275	9.775	9.258

C MAIN

1	2
8.555	10.316

A BY B

	1	2	3
1	9.333	9.800	9.450
2	9.216	9.750	9.066

A BY C

	1	2
1	8.366	10.688
2	8.744	9.944

B BY C

	1	2
1	8.250	10.300
2	9.083	10.466
3	8.333	10.183

CELL MEANS (BLOCKS = C LEVELS)

	1	2	3
1	7.933	8.833	8.333
2	8.566	9.333	8.333

	1	2	3
1	10.733	10.766	10.566
2	9.866	10.166	9.800

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE FACT
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

RELATIONS TEST.

2 A FACET LEVELS
3 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

30 SUBJECTS IN GROUP 1. GROUP 1 EXPERIMENTAL.

30 SUBJECTS IN GROUP 2. GROUP 2 EXPERIMENTAL.

30 SUBJECTS IN GROUP 3. GROUP 3 EXPERIMENTAL

30 SUBJECTS IN GROUP 4. GROUP 1 CONTROL.

30 SUBJECTS IN GROUP 5. GROUP 2 CONTROL.

30 SUBJECTS IN GROUP 6. GROUP 3 CONTROL.

SOURCE	SS	DF	MS	F	P
TOTAL	1199.00	359			
BETWEEN SUBJECTS	879.50	179			
A (VIEWERS NON VIEWERS)	0.46	1	0.46	0.094	0.7574
B (NUMBER OF TESTS)	0.35	2	0.17	0.035	0.9652
A X B	12.01	2	6.00	1.206	0.3014
ERROR (BETWEEN)	866.65	174	4.98		
WITHIN SUBJECTS	319.50	180			
C (TESTING PERIOD)	73.80	1	73.80	53.945	0.0000
A X C	0.80	1	0.80	0.585	0.5483
B X C	3.48	2	1.74	1.273	0.2817
A X B X C	3.35	2	1.67	1.226	0.2954
ERROR (WITHIN)	238.05	174	1.36		

MEANS FOR ALL EFFECTS

A MAIN

1	2
7.961	8.033

B MAIN

1	2	3
8.041	7.975	7.975

C MAIN

1	2
7.544	8.450

A BY B

	1	2	3
1	7.750	8.033	8.100
2	8.333	7.916	7.850

A BY C

	1	2
1	7.555	8.366
2	7.533	8.533

B BY C

	1	2
1	7.650	8.433
2	7.383	8.566
3	7.600	8.350

CELL MEANS (BLOCKS = C LEVELS)

	1	2	3
1	7.300	7.466	7.900
2	8.000	7.300	7.300

	1	2	3
1	8.200	8.600	8.300
2	8.666	8.533	8.400

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE FAC
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

CLASSIFICATION SKILLS TEST.

2 A FACET LEVELS
3 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

30 SUBJECTS IN GROUP 1. GROUP 1 EXPERIMENTAL.

30 SUBJECTS IN GROUP 2. GROUP 2 EXPERIMENTAL.

30 SUBJECTS IN GROUP 3. GROUP 3 EXPERIMENTAL

30 SUBJECTS IN GROUP 4. GROUP 1 CONTROL.

30 SUBJECTS IN GROUP 5. GROUP 2 CONTROL.

30 SUBJECTS IN GROUP 6. GROUP 3 CONTROL.

SOURCE	SS	DF	MS	F	P
TOTAL	6810.65	359			
BETWEEN SUBJECTS	4402.65	179			
A (VIEWERS NON VIEWERS)	3.59	1	3.59	0.143	0.7069
B (NUMBER OF TESTS)	18.75	2	9.37	0.374	0.6938
A X B	23.26	2	11.63	0.464	0.6350
ERROR (BETWEEN)	4357.04	174	25.04		
WITHIN SUBJECTS	2408.00	180			
C (TESTING PERIOD)	1006.67	1	1006.67	133.022	0.0000
A X C	37.38	1	37.38	4.939	0.0258
B X C	37.42	2	18.71	2.472	0.0853
A X B X C	9.75	2	4.87	0.644	0.5311
ERROR (WITHIN)	1316.77	174	7.56		

MEANS FOR ALL EFFECTS

A MAIN

1	2
11.938	11.738

B MAIN

1	2	3
12.016	11.983	11.516

C MAIN

1	2
10.166	13.511

A BY B

	1	2	3
1	12.066	11.800	11.950
2	11.966	12.166	11.083

A BY C

	1	2
1	9.944	13.933
2	10.388	13.088

B BY C

	1	2
1	10.100	13.933
2	10.100	13.866
3	10.300	12.733

CELL MEANS (BLOCKS = C LEVELS)

	1	2	3
1	9.900	9.366	10.566
2	10.300	10.833	10.033

	1	2	3
1	14.233	14.233	13.333
2	13.633	13.500	12.133

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE FAC
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

PUZZLES TEST.

2 A FACET LEVELS
3 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

30 SUBJECTS IN GROUP 1. GROUP 1 EXPERIMENTAL.

30 SUBJECTS IN GROUP 2. GROUP 2 EXPERIMENTAL.

30 SUBJECTS IN GROUP 3. GROUP 3 EXPERIMENTAL

30 SUBJECTS IN GROUP 4. GROUP 1 CONTROL.

30 SUBJECTS IN GROUP 5. GROUP 2 CONTROL.

30 SUBJECTS IN GROUP 6. GROUP 3 CONTROL.

SOURCE	SS	DF	MS	F	P
TOTAL	1975.28	359			
BETWEEN SUBJECTS	1253.28	179			
A (VIEWERS NON VIEWERS)	0.04	1	0.04	0.006	0.9360
B (NUMBER OF TESTS)	9.17	2	4.58	0.646	0.5300
A X B	9.20	2	4.60	0.648	0.5288
ERROR (BETWEEN)	1234.86	174	7.09		
WITHIN SUBJECTS	722.00	180			
C (TESTING PERIOD)	328.71	1	328.71	153.916	0.0000
A X C	11.37	1	11.37	5.327	0.0208
B X C	5.17	2	2.58	1.210	0.3001
A X B X C	5.13	2	2.56	1.203	0.3024
ERROR (WITHIN)	371.60	174	2.13		

MEANS FOR ALL EFFECTS

A MAIN

1	2
6.466	6.444

B MAIN

1	2	3
6.625	6.500	6.241

C MAIN

1	2
5.500	7.411

A BY B

	1	2	3
1	6.633	6.316	6.450
2	6.616	6.683	6.033

A BY C

	1	2
1	5.333	7.600
2	5.666	7.222

B BY C

	1	2
1	5.750	7.500
2	5.633	7.366
3	5.116	7.366

CELL MEANS (BLOCKS = C LEVELS)

	1	2	3
1	5.566	5.133	5.300
2	5.933	6.133	4.933

	1	2	3
1	7.700	7.500	7.600
2	7.300	7.233	7.133

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE FAC
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

TOTAL SCORE.

2 A FACET LEVELS
3 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

30 SUBJECTS IN GROUP 1. GROUP 1 EXPERIMENTAL.

30 SUBJECTS IN GROUP 2. GROUP 2 EXPERIMENTAL.

30 SUBJECTS IN GROUP 3. GROUP 3 EXPERIMENTAL

30 SUBJECTS IN GROUP 4. GROUP 1 CONTROL.

30 SUBJECTS IN GROUP 5. GROUP 2 CONTROL.

30 SUBJECTS IN GROUP 6. GROUP 3 CONTROL.

SOURCE	SS	DF	MS	F	P
TOTAL	410470.06	359			
BETWEEN SUBJECTS	313561.06	179			
A (VIEWERS VS NON VIEWERS)	79.00	1	79.00	0.044	0.8277
B (NUMBER OF TESTS)	1695.00	2	847.50	0.476	0.6274
A X B	2557.00	2	1278.50	0.719	0.5070
ERROR (BETWEEN)	309230.06	174	1777.18		
WITHIN SUBJECTS	96909.01	180			
C (TESTING PERIOD)	68670.01	1	68670.01	485.024	0.0000
A X C	2854.00	1	2854.00	20.158	0.0000
B X C	276.00	2	138.00	0.974	0.6188
A X B X C	474.00	2	237.00	1.673	0.1885
ERROR (WITHIN)	24635.00	174	141.58		

MEANS FOR ALL EFFECTS

A MAIN

1	2
141.672	140.738

B MAIN

1	2	3
141.616	143.633	138.366

C MAIN

1	2
127.394	155.016

A BY B

18

	4 tests	3 tests	2 Tests
	1	2	3
1 Virus	140.066	142.350	142.600
2 Virus	143.166	144.916	134.133
	141.62	145.63	138.37

A BY C

	1	2
1	125.044	158.300
2	129.744	151.733

+3

B BY C

	1	2
1	126.733	156.500
2	130.900	156.366
3	124.550	152.183

CELL MEANS (BLOCKS = C LEVELS)

	1	2	3
1	122.233	125.466	127.433
2	131.233	136.333	121.666

	1	2	3
1	157.900	159.233	157.766
2	155.100	153.500	146.600

V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

REPEATED MEASURES PRETEST 3MONTH TEST BODY PARTS.

1 DEPENDENT VARIABLE(S).
2 GROUP(S).
2 TRIAL(S) PER SUBJECT.
2 CARD(S) PER SUBJECT.
1 SCORE(S) ON CARD 1.
1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(57X,F3.0)

(57X,F3.0)

OVERALL VIEWER-NONVIEWER, PRETEST-POSTTEST

MEANS AND ANOVA SUMMARIES

GROUP 1. 97 SUBJECTS. EXPERIMENTAL GROUP

GROUP 2. 95 SUBJECTS. CONTROL GROUP

VARIABLE 1 ANALYSIS.

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	27.653	383.		
BETWEEN	42.944	191.		
GROUPS	21.437	1.	0.4978	0.5115
ERROR (G)	43.057	190.		
WITHIN	12.442	192.		
TRIALS	822.541	1.	99.7895	0.0000
G BY T	0.333	1.	0.0405	0.8350
ERROR (T)	8.242	190.		

GROUP MEANS

1	2
36.525	36.052

TRIAL MEANS

1	2
34.828	37.755

GROUPS BY TRIALS

	pre 1	post 2
1 E	35.030	38.020
2 C	34.621	37.484

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 REPEATED MEASURES  PRETEST  3MONTH TEST  LETTERS.

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 2 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
 1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(48X,F3.0)

(48X,F3.0)

GROUP 1.   97 SUBJECTS.      EXPERIMENTAL GROUP

GROUP 2.   95 SUBJECTS.      CONTROL GROUP


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL           155.896      383.
BETWEEN         235.253      191.
 GROUPS         186.625        1.       0.7924     0.6219
 ERROR (G)      235.509      190.
WITHIN           76.953      192.
 TRIALS        8048.333        1.     241.5342     0.0000
 G BY T         395.542        1.      11.8703     0.0010
 ERROR (T)       33.321      190.


GROUP MEANS

          1        2
      33.252   31.857


TRIAL MEANS

          1        2
      27.984   37.140


GROUPS BY TRIALS

          1        2
 1    27.670   38.835
 2    28.305   35.410
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 REPEATED MEASURES  PRETEST  3MONTH TEST  FORMS.

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 2 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
 1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(60X,F3.0)

(60X,F3.0)

GROUP 1.   97 SUBJECTS.      EXPERIMENTAL GROUP

GROUP 2.   95 SUBJECTS.      CONTROL GROUP


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL             4.329      383.
BETWEEN           5.761      191.
 GROUPS          12.252        1.      2.1391      0.1413
 ERROR (G)        5.727      190.
WITHIN            2.903      192.
 TRIALS        164.065        1.     81.1910      0.0000
 G BY T          9.496        1.      4.6995      0.0294
 ERROR (T)       2.020      190.


GROUP MEANS

              1         2
          4.778     4.421


TRIAL MEANS

              1         2
          3.947     5.255


GROUPS BY TRIALS

              1         2
 1        3.969     5.587
 2        3.926     4.915
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 REPEATED MEASURES  PRETEST  3MONTH TEST  NUMBERS.

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 2 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
 1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(69X,F3.0)

(69X,F3.0)

GROUP 1.   97 SUBJECTS.      EXPERIMENTAL GROUP

GROUP 2.   95 SUBJECTS.      CONTROL GROUP


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE     D.F.     F-RATIO        P

TOTAL           123.598     383.
BETWEEN         209.658     191.
 GROUPS          55.625       1.      0.2642     0.6141
 ERROR (G)      210.469     190.
WITHIN           37.986     192.
 TRIALS        3718.833       1.    207.2913     0.0000
 G BY T         166.042       1.      9.2553     0.0030
 ERROR (T)       17.940     190.


GROUP MEANS

              1         2
         31.402    32.163


TRIAL MEANS

              1         2
         28.666    34.890


GROUPS BY TRIALS

              1         2
 1       27.639    35.164
 2       29.715    34.610
```

V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

REPEATED MEASURES PRETEST 3MONTH TEST SORTING SKILLS.

1 DEPENDENT VARIABLE(S).
2 GROUP(S).
2 TRIAL(S) PER SUBJECT.
2 CARD(S) PER SUBJECT.
1 SCORE(S) ON CARD 1.
1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(54X,F3.0)

(54X,F3.0)

GROUP 1. 97 SUBJECTS. EXPERIMENTAL GROUP

GROUP 2. 95 SUBJECTS. CONTROL GROUP

VARIABLE 1 ANALYSIS.

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	4.192	383.		
BETWEEN	5.094	191.		
GROUPS	4.906	1.	0.9627	0.6711
ERROR (G)	5.095	190.		
WITHIN	3.294	192.		
TRIALS	295.755	1.	179.5319	0.0000
G BY T	23.744	1.	14.4137	0.0004
ERROR (T)	1.647	190.		

GROUP MEANS

1	2
9.505	9.278

TRIAL MEANS

1	2
8.515	10.270

GROUPS BY TRIALS

	1	2
1	8.381	10.628
2	8.652	9.905

```
VOL, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 REPEATED MEASURES  PRETEST  3MONTH TEST  RELATIONS.

 1 DEPENDENT VARIABLE(S).
   GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 2 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
 1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(5X,F3.0)

(5X,F3.0)

GROUP 1.    97 SUBJECTS.      EXPERIMENTAL GROUP

GROUP 2.    95 SUBJECTS.      CONTROL GROUP


VARIABLE 1 ANALYSIS.

SOURCE       MEAN SQUARE      D.F.      F-RATIO        P

TOTAL              3.274      383.
BETWEEN            4.820      191.
 GROUPS            0.062        1.       0.0128     0.9057
 ERROR (G)         4.845      190.
WITHIN             1.736      192.
 TRIALS           77.942        1.      58.1141     0.0000
 G BY T            0.729        1.       0.5436     0.5313
 ERROR (T)         1.341      190.


GROUP MEANS

          1         2
      7.943     7.968


TRIAL MEANS

          1         2
      7.505     8.406


GROUPS BY TRIALS

          1         2
 1    7.536     8.350
 2    7.473     8.463
```

V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

REPEATED MEASURES PRETEST 3MONTH TEST CLASSIFICATION SKILLS

1 DEPENDENT VARIABLE(S).
2 GROUP(S).
2 TRIAL(S) PER SUBJECT.
2 CARD(S) PER SUBJECT.
1 SCORE(S) ON CARD 1.
1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(72X,F3.0)

(72X,F3.0)

GROUP 1. 97 SUBJECTS. EXPERIMENTAL GROUP

GROUP 2. 95 SUBJECTS. CONTROL GROUP

VARIABLE 1 ANALYSIS.

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	18.871	383.		
BETWEEN	24.598	191.		
GROUPS	9.289	1.	0.3763	0.5474
ERROR (G)	24.679	190.		
WITHIN	13.174	192.		
TRIALS	1043.458	1.	136.8912	0.0000
G BY T	37.760	1.	4.9538	0.0255
ERROR (T)	7.622	190.		

GROUP MEANS

1	2
11.969	11.657

TRIAL MEANS

1	2
10.166	13.463

GROUPS BY TRIALS

	1	2
1	10.010	13.927
2	10.326	12.989

```
/01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 REPEATED MEASURES  PRETEST  3MONTH TEST  PUZZLES.

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 2 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
 1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(51X,F3.0)

(51X,F3.0)

GROUP 1.   97 SUBJECTS.      EXPERIMENTAL GROUP

GROUP 2.   95 SUBJECTS.      CONTROL GROUP


ARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL             5.463      383.
BETWEEN           6.915      191.
GROUPS            0.330        1.       0.0474     0.8223
ERROR (G)         6.950      190.
WITHIN            4.018      192.
TRIALS          346.940        1.     159.1624     0.0000
G BY T           10.399        1.       4.7706     0.0283
ERROR (T)         2.179      190.


ROUP MEANS

          1        2
      6.463    6.405


RIAL MEANS

          1        2
      5.484    7.385


ROUPS BY TRIALS

          1        2
1     5.350    7.577
2     5.621    7.189
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 REPEATED MEASURES  PRETEST  3MONTH TEST  TOTAL SCORE.

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 2 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
 1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(69X,F3.0)

(69X,F3.0)

GROUP 1.   97 SUBJECTS.      EXPERIMENTAL GROUP

GROUP 2.   95 SUBJECTS.      CONTROL GROUP


VARIABLE 1 ANALYSIS.

SOURCE       MEAN SQUARE     D.F.      F-RATIO        P

TOTAL          1165.169      383.
BETWEEN        1803.916      191.
 GROUPS         397.000        1.        0.2191     0.6454
 ERROR (G)     1811.321      190.
WITHIN          529.750      192.
 TRIALS       72434.015        1.      513.7164     0.0000
 G BY T        2488.000        1.       17.6453     0.0001
 ERROR (T)      141.000      190.


GROUP MEANS

          1         2
      141.840   139.805


TRIAL MEANS

          1         2
      127.098   154.567


GROUPS BY TRIALS

          1         2
 1    125.587   158.092
 2    128.642   150.968
```

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

BODY PARTS TEST.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

APPENDIX D

PRETEST-POSTTEST MEANS AND ANOVA SUMMARIES

ON PERFORMANCE OF NEGRO AND WHITE SUBJECTS

32 SUBJECTS IN GROUP 1. EXPERIMENTAL NEGRO

32 SUBJECTS IN GROUP 2. EXPERIMENTAL CAUCASIAN

32 SUBJECTS IN GROUP 3. CONTROL NEGRO

32 SUBJECTS IN GROUP 4. CONTROL CAUCASIAN

SOURCE	SS	DF	MS	F	P
TOTAL	8360.18	255			
BETWEEN SUBJECTS	6328.68	127			
A (VIEWERS NON VIEWERS)	51.62	1	51.62	1.050	0.3081
B (RACE)	160.93	1	160.93	3.274	0.0691
A X B	22.00	1	22.00	0.447	0.5118
ERROR (BETWEEN)	6094.12	124	49.14		
WITHIN SUBJECTS	2031.50	128			
C (TEST OCCASION)	759.68	1	759.68	77.064	0.0000
A X C	5.37	1	5.37	0.545	0.5315
B X C	19.68	1	19.68	1.997	0.1564
A X B X C	24.37	1	24.37	2.472	0.1143
ERROR (WITHIN)	1222.37	124	9.85		

MEANS FOR ALL EFFECTS

A MAIN

1	2
36.164	35.265

B MAIN

1	2
34.921	36.507

C MAIN

1	2
33.992	37.437

A BY B

	1	2
1	35.078	37.250
2	34.765	35.765

A BY C

	1	2
1	34.296	38.031
2	33.687	36.843

B BY C

	1	2
1	32.921	36.921
2	35.062	37.953

CELL MEANS (BLOCKS = C LEVELS)

	1	2
1	32.625	35.968
2	33.218	34.156

	1	2
1	37.531	38.531
2	36.312	37.375

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

LETTERS TEST.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

32 SUBJECTS IN GROUP 1. EXPERIMENTAL NEGRO

32 SUBJECTS IN GROUP 2. EXPERIMENTAL CAUCASIAN

32 SUBJECTS IN GROUP 3. CONTROL NEGRO

32 SUBJECTS IN GROUP 4. CONTROL CAUCASIAN

SOURCE	SS	DF	MS	F	P
TOTAL	38612.44	255			
BETWEEN SUBJECTS	28228.44	127			
A (VIEWERS NON VIEWERS)	3.50	1	3.50	0.015	0.8954
B (RACE)	552.25	1	552.25	2.504	0.1120
A X B	328.53	1	328.53	1.489	0.2222
ERROR (BETWEEN)	27344.16	124	220.51		
WITHIN SUBJECTS	10384.00	128			
C (TEST OCCASION)	5967.56	1	5967.56	188.976	0.0000
A X C	123.75	1	123.75	3.918	0.0470
B X C	264.00	1	264.00	8.360	0.0047
A X B X C	112.96	1	112.96	3.577	0.0576
ERROR (WITHIN)	3915.71	124	31.57		

MEANS FOR ALL EFFECTS

A MAIN

1	2
31.945	31.710

B MAIN

1	2
30.359	33.296

C MAIN

1	2
27.000	36.656

A BY B

	1	2
1	31.609	32.281
2	29.109	34.312

A BY C

	1	2
1	26.421	37.468
2	27.578	35.843

B BY C

	1	2
1	24.515	36.203
2	29.484	37.109

CELL MEANS (BLOCKS = C LEVELS)

	1	2
1	24.406	28.437
2	24.625	30.531

	1	2
1	38.812	36.125
2	33.593	38.093

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

FORMS TEST.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

32 SUBJECTS IN GROUP 1. EXPERIMENTAL NEGRO

32 SUBJECTS IN GROUP 2. EXPERIMENTAL CAUCASIAN

32 SUBJECTS IN GROUP 3. CONTROL NEGRO

32 SUBJECTS IN GROUP 4. CONTROL CAUCASIAN

SOURCE	SS	DF	MS	F	P
TOTAL	1097.10	255			
BETWEEN SUBJECTS	721.10	127			
A (VIEWERS NON VIEWERS)	9.76	1	9.76	1.735	0.1870
B (RACE)	0.39	1	0.39	0.069	0.7886
A X B	13.14	1	13.14	2.335	0.1250
ERROR (BETWEEN)	697.81	124	5.62		
WITHIN SUBJECTS	376.00	128			
C (TEST OCCASION)	123.76	1	123.76	74.251	0.0000
A X C	21.39	1	21.39	12.833	0.0008
B X C	23.76	1	23.76	14.257	0.0004
A X B X C	0.39	1	0.39	0.234	0.6348
ERROR (WITHIN)	206.68	124	1.66		

MEANS FOR ALL EFFECTS

A MAIN

1	2
4.859	4.468

B MAIN

1	2
4.703	4.625

C MAIN

1	2
3.968	5.359

A BY B

	1	2
1	4.671	5.046
2	4.734	4.203

A BY C

	1	2
1	3.875	5.843
2	4.062	4.875

B BY C

	1	2
1	3.703	5.703
2	4.234	5.015

CELL MEANS (BLOCKS = C LEVELS)

	1	2
1	3.343	4.406
2	4.062	4.062

	1	2
1	6.000	5.687
2	5.406	4.343

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

NUMBERS TEST.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

32 SUBJECTS IN GROUP 1. EXPERIMENTAL NEGRO

32 SUBJECTS IN GROUP 2. EXPERIMENTAL CAUCASIAN

32 SUBJECTS IN GROUP 3. CONTROL NEGRO

32 SUBJECTS IN GROUP 4. CONTROL CAUCASIAN

SOURCE	SS	DF	MS	F	P
TOTAL	33400.63	255			
BETWEEN SUBJECTS	28575.62	127			
A (VIEWERS NON VIEWERS)	87.90	1	87.90	0.422	0.5241
B (RACE)	2437.90	1	2437.90	11.714	0.0012
A X B	244.09	1	244.09	1.172	0.2805
ERROR (BETWEEN)	25805.72	124	208.11		
WITHIN SUBJECTS	4825.00	128			
C (TEST OCCASION)	2562.90	1	2562.90	155.686	0.0000
A X C	78.75	1	78.75	4.783	0.0287
B X C	118.25	1	118.25	7.183	0.0082
A X B X C	23.81	1	23.81	1.446	0.2293
ERROR (WITHIN)	2041.28	124	16.46		

MEANS FOR ALL EFFECTS

A MAIN

1	2
30.125	31.296

B MAIN

1	2
27.625	33.796

C MAIN

1	2
27.546	33.875

A BY B

	1	2
1	28.015	32.234
2	27.234	35.359

A BY C

	1	2
1	26.406	33.843
2	28.687	33.906

B BY C

	1	2
1	23.781	31.468
2	31.312	36.281

CELL MEANS (BLOCKS = C LEVELS)

	1	2
1	23.312	29.500
2	24.250	33.125

	1	2
1	32.718	34.968
2	30.218	37.593

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

SORTING SKILLS TEST.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

32 SUBJECTS IN GROUP 1. EXPERIMENTAL NEGRO

32 SUBJECTS IN GROUP 2. EXPERIMENTAL CAUCASIAN

32 SUBJECTS IN GROUP 3. CONTROL NEGRO

32 SUBJECTS IN GROUP 4. CONTROL CAUCASIAN

SOURCE	SS	DF	MS	F	P
TOTAL	1071.93	255			
BETWEEN SUBJECTS	634.93	127			
A (VIEWERS NON VIEWERS)	9.76	1	9.76	2.140	0.1421
B (RACE)	52.56	1	52.56	11.521	0.0012
A X B	6.89	1	6.89	1.510	0.2190
ERROR (BETWEEN)	565.71	124	4.56		
WITHIN SUBJECTS	437.00	128			
C (TEST OCCASION)	217.56	1	217.56	154.849	0.0000
A X C	26.26	1	26.26	18.694	0.0001
B X C	7.56	1	7.56	5.382	0.0207
A X B X C	11.39	1	11.39	8.107	0.0053
ERROR (WITHIN)	174.21	124	1.40		

MEANS FOR ALL EFFECTS

A MAIN

1	2
9.460	9.070

B MAIN

1	2
8.812	9.718

C MAIN

1	2
8.343	10.187

A BY B

	1	2
1	8.843	10.078
2	8.781	9.359

A BY C

	1	2
1	8.218	10.703
2	8.468	9.671

B BY C

	1	2
1	7.718	9.906
2	8.968	10.468

CELL MEANS (BLOCKS = C LEVELS)

	1	2
1	7.218	9.218
2	8.218	8.718

	1	2
1	10.468	10.937
2	9.343	10.000

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

RELATIONS TEST.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

32 SUBJECTS IN GROUP 1. EXPERIMENTAL NEGRO

32 SUBJECTS IN GROUP 2. EXPERIMENTAL CAUCASIAN

32 SUBJECTS IN GROUP 3. CONTROL NEGRO

32 SUBJECTS IN GROUP 4. CONTROL CAUCASIAN

SOURCE	SS	DF	MS	F	P
TOTAL	821.35	255			
BETWEEN SUBJECTS	596.35	127			
A (VIEWERS NON VIEWERS)	1.26	1	1.26	0.275	0.6067
B (RACE)	23.76	1	23.76	5.181	0.0230
A X B	2.64	1	2.64	0.575	0.5441
ERROR (BETWEEN)	568.68	124	4.58		
WITHIN SUBJECTS	225.00	128			
C (TEST OCCASION)	50.76	1	50.76	38.252	0.0000
A X C	0.14	1	0.14	0.105	0.7443
B X C	8.26	1	8.26	6.228	0.0132
A X B X C	1.26	1	1.26	0.953	0.6680
ERROR (WITHIN)	164.56	124	1.32		

MEANS FOR ALL EFFECTS

A MAIN

1	2
7.828	7.968

B MAIN

1	2
7.593	8.203

C MAIN

1	2
7.453	8.343

A BY B

	1	2
1	7.625	8.031
2	7.562	8.375

A BY C

	1	2
1	7.359	8.296
2	7.546	8.390

B BY C

	1	2
1	6.968	8.218
2	7.937	8.468

CELL MEANS (BLOCKS = C LEVELS)

	1	2
1	6.906	7.812
2	7.031	8.062

	1	2
1	8.343	8.250
2	8.093	8.687

```
03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
EORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

    CLASSIFICATIONS TEST.

 2 A FACET LEVELS
 2 B FACET LEVELS
 2 C FACET LEVELS
 1 CARD(S)-PER-SUBJECT
 2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
ORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

   32 SUBJECTS IN GROUP  1.   EXPERIMENTAL NEGRO

   32 SUBJECTS IN GROUP  2.   EXPERIMENTAL CAUCASIAN

   32 SUBJECTS IN GROUP  3.   CONTROL NEGRO

   32 SUBJECTS IN GROUP  4.   CONTROL CAUCASIAN
```

SOURCE	SS	DF	MS	F	P
TOTAL	4493.53	255			
BETWEEN SUBJECTS	2985.03	127			
A (VIEWERS NON VIEWERS)	21.97	1	21.97	0.993	0.6785
B (RACE)	204.85	1	204.85	9.264	0.0032
A X B	16.50	1	16.50	0.746	0.6064
ERROR (BETWEEN)	2741.70	124	22.11		
WITHIN SUBJECTS	1508.50	128			
C (TEST OCCASION)	615.66	1	615.66	86.905	0.0000
A X C	13.59	1	13.59	1.918	0.1649
B X C	0.31	1	0.31	0.044	0.8284
A X B X C	0.47	1	0.47	0.067	0.7916
ERROR (WITHIN)	878.45	124	7.08		

MEANS FOR ALL EFFECTS

A MAIN

1	2
11.750	11.164

B MAIN

1	2
10.562	12.351

C MAIN

1	2
9.906	13.007

A BY B

	1	2
1	11.109	12.390
2	10.015	12.312

A BY C

	1	2
1	9.968	13.531
2	9.843	12.484

B BY C

	1	2
1	9.046	12.078
2	10.765	13.937

CELL MEANS (BLOCKS = C LEVELS)

	1	2
1	9.406	10.531
2	8.687	11.000

	1	2
1	12.812	14.250
2	11.343	13.625

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

PUZZLES TEST.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

32 SUBJECTS IN GROUP 1. EXPERIMENTAL NEGRO

32 SUBJECTS IN GROUP 2. EXPERIMENTAL CAUCASIAN

32 SUBJECTS IN GROUP 3. CONTROL NEGRO

32 SUBJECTS IN GROUP 4. CONTROL CAUCASIAN

SOURCE	SS	DF	MS	F	P
TOTAL	1356.62	255			
BETWEEN SUBJECTS	803.12	127			
A (VIEWERS NON VIEWERS)	0.00	1	0.00	0.000	0.9765
B (RACE)	157.81	1	157.81	30.340	0.0000
A X B	0.31	1	0.31	0.060	0.8010
ERROR (BETWEEN)	644.98	124	5.20		
WITHIN SUBJECTS	553.50	128			
C (TEST OCCASION)	270.19	1	270.19	121.314	0.0000
A X C	6.56	1	6.56	2.948	0.0845
B X C	0.47	1	0.47	0.212	0.6507
A X B X C	0.09	1	0.09	0.043	0.8289
ERROR (WITHIN)	276.17	124	2.22		

MEANS FOR ALL EFFECTS

A MAIN

1	2
6.312	6.304

B MAIN

1	2
5.523	7.093

C MAIN

1	2
5.281	7.335

A BY B

	1	2
1	5.562	7.062
2	5.484	7.125

A BY C

	1	2
1	5.125	7.500
2	5.437	7.171

B BY C

	1	2
1	4.453	6.593
2	6.109	8.078

CELL MEANS (BLOCKS = C LEVELS)

	1	2
1	4.312	5.937
2	4.593	6.281

	1	2
1	6.812	8.187
2	6.375	7.968

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

TOTAL SCORE.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

32 SUBJECTS IN GROUP 1. EXPERIMENTAL NEGRO

32 SUBJECTS IN GROUP 2. EXPERIMENTAL CAUCASIAN

32 SUBJECTS IN GROUP 3. CONTROL NEGRO

32 SUBJECTS IN GROUP 4. CONTROL CAUCASIAN

SOURCE	SS	DF	MS	F	P
TOTAL	309438.06	255			
BETWEEN SUBJECTS	237286.03	127			
A (VIEWERS NON VIEWERS)	92.00	1	92.00	0.051	0.8154
B (RACE)	15361.00	1	15361.00	8.619	0.0042
A X B	844.00	1	844.00	0.473	0.5002
ERROR (BETWEEN)	220989.03	124	1782.16		
WITHIN SUBJECTS	72152.01	128			
C (TEST OCCASION)	52757.00	1	52757.00	422.464	0.0000
A X C	1495.00	1	1495.00	11.971	0.0010
B X C	1779.00	1	1779.00	14.245	0.0004
A X B X C	636.00	1	636.00	5.092	0.0242
ERROR (WITHIN)	15485.00	124	124.87		

MEANS FOR ALL EFFECTS

A MAIN

1	2
138.445	137.250

B MAIN

1	2
130.101	145.593

C MAIN

1	2
123.492	152.203

A BY B

	1 B	2 C
1 W	132.515	144.375
2 N	127.687	146.812

A BY C

	1 A	2 C
1	121.671	155.218
2	125.312	149.187

B BY C

	1	2
1	113.109	147.093
2	133.875	157.312

CELL MEANS (BLOCKS = C LEVELS)

		1 Negro	2 white
Pre	1 ✓	111.531	131.812
	2 NV	114.687	135.937
Post	1	153.500	156.937
	2	140.687	157.687

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 REPEATED MEASURES  PRETEST  3MONTH TEST  BODY PARTS.

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 2 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
 1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(57X,F3.0)

(57X,F3.0)

GROUP 1.   32 SUBJECTS.      EXPERIMENTAL NEGRO SAMPLE.

GROUP 2.   35 SUBJECTS.      CONTROL NEGRO SAMPLE.


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.     F-RATIO        P

TOTAL          34.067        133.
BETWEEN        51.068         66.
 GROUPS         0.875          1.      0.0168      0.8923
 ERROR (G)     51.840         65.
WITHIN         17.320         67.
 TRIALS       524.059          1.     55.9599      0.0000
 G BY T        27.721          1.      2.9601      0.0863
 ERROR (T)      9.364         65.


GROUP MEANS

          1        2
       35.078   34.914


TRIAL MEANS

          1        2
       33.014   36.970


GROUPS BY TRIALS

          1        2
 1     32.625   37.531
 2     33.371   36.457
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 REPEATED MEASURES  PRETEST  3MONTH TEST  LETTERS.

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 2 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
 1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(48X,F3.0)

(48X,F3.0)

GROUP 1.    32 SUBJECTS.      EXPERIMENTAL NEGRO SAMPLE.

GROUP 2.    35 SUBJECTS.      CONTROL NEGRO SAMPLE.


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO         P

TOTAL           157.492      133.
BETWEEN         211.711       66.
 GROUPS         176.109        1.       0.8296      0.6311
 ERROR (G)      212.258       65.
WITHIN          104.082       67.
 TRIALS        4598.691        1.     138.8233      0.0000
 G BY T         221.606        1.       6.6897      0.0115
 ERROR (T)       33.126       65.


GROUP MEANS

              1         2
         31.609    29.314


TRIAL MEANS

              1         2
         24.552    36.268


GROUPS BY TRIALS

              1         2
 1       24.406    38.812
 2       24.685    33.942
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 REPEATED MEASURES  PRETEST  3MONTH TEST  FORMS.

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 2 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
 1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(60X,F3.0)

(60X,F3.0)

GROUP 1.   32 SUBJECTS.      EXPERIMENTAL NEGRO SAMPLE.

GROUP 2.   35 SUBJECTS.      CONTROL NEGRO SAMPLE.


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL             5.175     133.
BETWEEN           6.595      66.
 GROUPS           0.433       1.       0.0647      0.7956
 ERROR (G)        6.690      65.
WITHIN            3.776      67.
 TRIALS         126.119       1.      73.7335      0.0000
 G BY T          15.699       1.       9.1782      0.0038
 ERROR (T)        1.710      65.


GROUP MEANS

          1         2
      4.671     4.785


TRIAL MEANS

          1         2
      3.761     5.701


GROUPS BY TRIALS

          1         2
 1    3.343     6.000
 2    4.142     5.428
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 REPEATED MEASURES  PRETEST  3MONTH TEST  NUMBERS.

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 2 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
 1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(69X,F3.0)

(69X,F3.0)

GROUP 1.   32 SUBJECTS.      EXPERIMENTAL NEGRO SAMPLE.

GROUP 2.   35 SUBJECTS.      CONTROL NEGRO SAMPLE.


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL           136.408      133.
BETWEEN         226.656       66.
 GROUPS           9.906        1.       0.0430      0.8306
 ERROR (G)      229.991       65.
WITHIN           47.507       67.
 TRIALS        1971.627        1.     114.5030      0.0000
 G BY T          92.138        1.       5.3509      0.0224
 ERROR (T)       17.218       65.


GROUP MEANS

          1        2
     28.015   27.471


TRIAL MEANS

          1        2
     23.895   31.567


GROUPS BY TRIALS

          1        2
 1   23.312   32.718
 2   24.428   30.514
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 REPEATED MEASURES  PRETEST  3MONTH TEST  SORTING SKILLS.

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 2 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
 1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(54X,F3.0)

(54X,F3.0)

GROUP 1.   32 SUBJECTS.      EXPERIMENTAL NEGRO SAMPLE.

GROUP 2.   35 SUBJECTS.      CONTROL NEGRO SAMPLE.


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL             4.604      133.
BETWEEN           4.914       66.
 GROUPS           0.007        1.       0.0015      0.9674
 ERROR (G)        4.990       65.
WITHIN            4.298       67.
 TRIALS         159.075        1.     110.2324      0.0000
 G BY T          35.124        1.      24.3394      0.0000
 ERROR (T)        1.443       65.


GROUP MEANS

              1         2
          8.843     8.828


TRIAL MEANS

              1         2
          7.746     9.925


GROUPS BY TRIALS

              1         2
 1        7.218    10.468
 2        8.228     9.428
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 REPEATED MEASURES  PRETEST  3MONTH TEST  RELATIONS.

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 2 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
 1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(45X,F3.0)

(45X,F3.0)

GROUP 1.   32 SUBJECTS.      EXPERIMENTAL NEGRO SAMPLE.

GROUP 2.   35 SUBJECTS.      CONTROL NEGRO SAMPLE.


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL             3.718      133.
BETWEEN           5.206       66.
 GROUPS           0.225        1.      0.0427      0.8312
 ERROR (G)        5.282       65.
WITHIN            2.253       67.
 TRIALS          55.194        1.     37.7329      0.0000
 G BY T           0.725        1.      0.4958      0.5091
 ERROR (T)        1.462       65.


GROUP MEANS

          1         2
      7.625     7.542


TRIAL MEANS

          1         2
      6.940     8.223


GROUPS BY TRIALS

          1         2
 1    6.906     8.343
 2    6.971     8.114
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 REPEATED MEASURES  PRETEST  3MONTH TEST  CLASSIFICATION SKILLS.

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 2 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
 1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(72X,F3.0)

(72X,F3.0)

GROUP 1.   32 SUBJECTS.      EXPERIMENTAL NEGRO SAMPLE.

GROUP 2.   35 SUBJECTS.      CONTROL NEGRO SAMPLE.


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL            16.276      133.
BETWEEN          22.012       66.
 GROUPS          26.785        1.       1.2209     0.2726
 ERROR (G)       21.938       65.
WITHIN           10.626       67.
 TRIALS         280.866        1.      43.1443     0.0000
 G BY T           7.989        1.       1.2272     0.2713
 ERROR (T)        6.509       65.


GROUP MEANS

              1         2
         11.109    10.214


TRIAL MEANS

              1         2
          9.194    12.089


GROUPS BY TRIALS

              1         2
 1        9.406    12.812
 2        9.000    11.428
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 REPEATED MEASURES  PRETEST  3MONTH TEST  PUZZLES.

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 2 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
 1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(51X,F3.0)

(51X,F3.0)

GROUP 1.    32 SUBJECTS.      EXPERIMENTAL NEGRO SAMPLE.

GROUP 2.    35 SUBJECTS.      CONTROL NEGRO SAMPLE.


 VARIABLE 1 ANALYSIS.

 SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

 TOTAL             4.875     133.
 BETWEEN           5.665      66.
  GROUPS           0.089       1.        0.0156      0.8964
  ERROR (G)        5.751      65.
 WITHIN            4.097      67.
  TRIALS         148.366       1.       79.4750      0.0000
  G BY T           4.790       1.        2.5659      0.1101
  ERROR (T)        1.866      65.


 GROUP MEANS

          1        2
      5.562    5.614


 TRIAL MEANS

          1        2
      4.537    6.641


 GROUPS BY TRIALS

          1        2
 1    4.312    6.812
 2    4.742    6.485
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 REPEATED MEASURES  PRETEST  3MONTH TEST  TOTAL SCORE.

  1 DEPENDENT VARIABLE(S).
  2 GROUP(S).
  2 TRIAL(S) PER SUBJECT.
  2 CARD(S) PER SUBJECT.
  1 SCORE(S) ON CARD 1.
  1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(69X,F3.0)

(69X,F3.0)

GROUP 1.    32 SUBJECTS.      EXPERIMENTAL NEGRO SAMPLE.

GROUP 2.    35 SUBJECTS.      CONTROL NEGRO SAMPLE.


VARIABLE 1 ANALYSIS.

SOURCE       MEAN SQUARE     D.F.      F-RATIO         P

TOTAL          1335.654      133.
BETWEEN        1954.992       66.
 GROUPS         490.500        1.       0.2480      0.6259
 ERROR (G)     1977.523       65.
WITHIN          725.559       67.
 TRIALS       38150.500        1.     295.5112      0.0000
 G BY T        2070.508        1.      16.0380      0.0003
 ERROR (T)      129.100       65.


GROUP MEANS

          1         2
      132.515   128.685


TRIAL MEANS

          1         2
      113.641   147.388


GROUPS BY TRIALS

          1         2
 1    111.531   153.500
 2    115.571   141.800
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 REPEATED MEASURES  PRETEST  3MONTH TEST  BODY PARTS.

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 2 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
 1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(57X,F3.0)

(57X,F3.0)

GROUP 1.   65 SUBJECTS.      EXPERIMENTAL CAUCASIAN SAMPLE.

GROUP 2.   60 SUBJECTS.      CONTROL CAUCASIAN SAMPLE.


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE     D.F.     F-RATIO        P

TOTAL            22.943     249.
BETWEEN          36.165     124.
 GROUPS          17.000       1.      0.4680     0.5023
 ERROR (G)       36.321     123.
WITHIN            9.828     125.
 TRIALS         352.863       1.     49.9845     0.0000
 G BY T           7.324       1.      1.0375     0.3112
 ERROR (T)        7.059     123.


GROUP MEANS

              1         2
         37.238    36.716


TRIAL MEANS

              1         2
         35.800    38.176


GROUPS BY TRIALS

              1         2
 1       36.215    38.261
 2       35.350    38.083
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 REPEATED MEASURES  PRETEST  3MONTH TEST  LETTERS.

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 2 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
 1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(48X,F3.0)

(48X,F3.0)

GROUP 1.   65 SUBJECTS.      EXPERIMENTAL CAUCASIAN SAMPLE.

GROUP 2.   60 SUBJECTS.      CONTROL CAUCASIAN SAMPLE.


VARIABLE 1 ANALYSIS.

SOURCE       MEAN SQUARE      D.F.      F-RATIO         P

TOTAL            151.842      249.
BETWEEN          241.994      124.
 GROUPS           32.312        1.       0.1325      0.7173
 ERROR (G)       243.699      123.
WITHIN            62.412      125.
 TRIALS         3786.946        1.     122.6158      0.0000
 G BY T          215.741        1.       6.9853      0.0091
 ERROR (T)        30.884      123.


GROUP MEANS

              1         2
          34.061    33.341


TRIAL MEANS

              1         2
          29.824    37.608


GROUPS BY TRIALS

              1         2
 1        29.276    38.846
 2        30.416    36.266
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 REPEATED MEASURES  PRETEST  3MONTH TEST  FORMS.

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 2 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
 1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(60X,F3.0)

(60X,F3.0)

GROUP 1.   65 SUBJECTS.      EXPERIMENTAL CAUCASIAN SAMPLE.

GROUP 2.   60 SUBJECTS.      CONTROL CAUCASIAN SAMPLE.


VARIABLE 1 ANALYSIS.

SOURCE       MEAN SQUARE      D.F.      F-RATIO         P

TOTAL              3.880      249.
BETWEEN            5.336      124.
 GROUPS           24.174        1.       4.6638      0.0307
 ERROR (G)         5.183      123.
WITHIN             2.436      125.
 TRIALS           58.564        1.      29.4478      0.0000
 G BY T            1.320        1.       0.6640      0.5779
 ERROR (T)         1.988      123.

GROUP MEANS

          1         2
      4.630     4.208

TRIAL MEANS

          1         2
      4.048     5.016

GROUPS BY TRIALS

          1         2
 1    4.276     5.384
 2    3.800     4.616
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 REPEATED MEASURES  PRETEST  3MONTH TEST  NUMBERS.

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 2 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
 1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(69X,F3.0)

(69X,F3.0)

GROUP 1.    65 SUBJECTS.      EXPERIMENTAL CAUCASIAN SAMPLE.

GROUP 2.    60 SUBJECTS.      CONTROL CAUCASIAN SAMPLE.


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO          P

TOTAL           103.712      249.
BETWEEN         175.111      124.
 GROUPS         209.125        1.       1.1961      0.2757
 ERROR (G)      174.835      123.
WITHIN           32.884      125.
 TRIALS        1855.087        1.     105.3655      0.0000
 G BY T          89.850        1.       5.1033      0.0241
 ERROR (T)       17.606      123.


GROUP MEANS

              1         2
         33.069    34.900


TRIAL MEANS

              1         2
         31.224    36.672


GROUPS BY TRIALS

              1         2
 1       29.769    36.369
 2       32.800    37.000
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 REPEATED MEASURES  PRETEST  3MONTH TEST  SORTING SKILLS.

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 2 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
 1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(54X,F3.0)

(54X,F3.0)

GROUP 1.   65 SUBJECTS.      EXPERIMENTAL CAUCASIAN SAMPLE.

GROUP 2.   60 SUBJECTS.      CONTROL CAUCASIAN SAMPLE.


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL             3.732      249.
BETWEEN           4.716      124.
 GROUPS           5.214        1.      1.1067      0.2950
 ERROR (G)        4.711      123.
WITHIN            2.756      125.
 TRIALS         145.925        1.     91.9861      0.0000
 G BY T           3.449        1.      2.1746      0.1389
 ERROR (T)        1.586      123.


GROUP MEANS

          1         2
      9.830     9.541


TRIAL MEANS

          1         2
      8.928    10.456


GROUPS BY TRIALS

          1         2
 1    8.953    10.707
 2    8.900    10.183
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 REPEATED MEASURES  PRETEST  3MONTH TEST  RELATIONS.

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 2 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
 1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(45X,F3.0)

(45X,F3.0)

GROUP 1.   65 SUBJECTS.      EXPERIMENTAL CAUCASIAN SAMPLE.

GROUP 2.   60 SUBJECTS.      CONTROL CAUCASIAN SAMPLE.


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE     D.F.     F-RATIO        P

TOTAL             2.935     249.
BETWEEN           4.422     124.
 GROUPS           0.847       1.      0.1904     0.6674
 ERROR (G)        4.451     123.
WITHIN            1.460     125.
 TRIALS          30.277       1.     24.8570     0.0000
 G BY T           2.397       1.      1.9685     0.1594
 ERROR (T)        1.218     123.


GROUP MEANS

          1         2
      8.100     8.216


TRIAL MEANS

          1         2
      7.808     8.504


GROUPS BY TRIALS

          1         2
 1    7.846     8.353
 2    7.766     8.666
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 REPEATED MEASURES  PRETEST  3MONTH TEST  CLASSIFICATION SKILLS.

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 2 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
 1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(72X,F3.0)

(72X,F3.0)

GROUP 1.    65 SUBJECTS.       EXPERIMENTAL CAUCASIAN SAMPLE.

GROUP 2.    60 SUBJECTS.       CONTROL CAUCASIAN SAMPLE.


VARIABLE 1 ANALYSIS.

SOURCE       MEAN SQUARE      D.F.      F-RATIO          P

TOTAL             19.195      249.
BETWEEN           23.888      124.
 GROUPS            0.726        1.        0.0301       0.8566
 ERROR (G)        24.077      123.
WITHIN            14.540      125.
 TRIALS          770.894        1.       93.2014       0.0000
 G BY T           29.238        1.        3.5349       0.0591
 ERROR (T)         8.271      123.


GROUP MEANS

              1         2
         12.392    12.500


TRIAL MEANS

              1         2
         10.688    14.200


GROUPS BY TRIALS

              1         2
 1       10.307    14.476
 2       11.100    13.900
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 REPEATED MEASURES  PRETEST  3MONTH TEST  PUZZLES.

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 2 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
 1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(51X,F3.0)

(51X,F3.0)

GROUP 1.   65 SUBJECTS.      EXPERIMENTAL CAUCASIAN SAMPLE.

GROUP 2.   60 SUBJECTS.      CONTROL CAUCASIAN SAMPLE.


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL             5.208      249.
BETWEEN           6.450      124.
 GROUPS           0.105        1.       0.0162      0.8943
 ERROR (G)        6.502      123.
WITHIN            3.976      125.
 TRIALS         200.705        1.      85.0705      0.0000
 G BY T           6.103        1.       2.5869      0.1062
 ERROR (T)        2.359      123.


GROUP MEANS

          1         2
      6.907     6.866


TRIAL MEANS

          1         2
      5.992     7.784


GROUPS BY TRIALS

          1         2
 1    5.861     7.953
 2    6.133     7.600
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 REPEATED MEASURES  PRETEST  3MONTH TEST  TOTAL SCORE.

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 2 CARD(S) PER SUBJECT.
 1 SCORE(S) ON CARD 1.
 1 SCORE(S) ON CARD 2.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(69X,F3.0)

(69X,F3.0)

GROUP 1.   65 SUBJECTS.      EXPERIMENTAL CAUCASIAN SAMPLE.

GROUP 2.   60 SUBJECTS.      CONTROL CAUCASIAN SAMPLE.


VARIABLE 1 ANALYSIS.

SOURCE       MEAN SQUARE      D.F.      F-RATIO         P

TOTAL            990.783      249.
BETWEEN         1561.451      124.
 GROUPS            1.000        1.        0.0006      0.9781
 ERROR (G)      1574.138      123.
WITHIN           424.680      125.
 TRIALS        36313.054        1.      282.2614      0.0000
 G BY T          947.953        1.        7.3684      0.0075
 ERROR (T)       128.650      123.


GROUP MEANS

            1         2
        146.430   146.291


TRIAL MEANS

            1         2
        134.312   158.416


GROUPS BY TRIALS

              1         2
 1        132.507   160.353
 2        136.266   156.316
```

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

BODY PARTS TEST.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

37 SUBJECTS IN GROUP 1. MALES EXPERIMENTAL

37 SUBJECTS IN GROUP 2. FEMALES EXPERIMENTAL

37 SUBJECTS IN GROUP 3. MALES CONTROL

37 SUBJECTS IN GROUP 4. FEMALES CONTROL

APPENDIX E

PRETEST-POSTTEST MEANS AND ANOVA SUMMARIES

ON PERFORMANCE OF MALES AND FEMALES

SOURCE	SS	DF	MS	F	P
TOTAL	8619.56	295			
BETWEEN SUBJECTS	6960.06	147			
A (VIEWERS NON VIEWERS)	59.75	1	59.75	1.290	0.2565
B (SEX)	223.12	1	223.12	4.820	0.0270
A X B	12.56	1	12.56	0.271	0.6096
ERROR (BETWEEN)	6664.62	144	46.28		
WITHIN SUBJECTS	1659.50	148			
C (TEST OCCASION)	511.18	1	511.18	65.442	0.0000
A X C	0.00	1	0.00	0.000	1.0000
B X C	11.75	1	11.75	1.504	0.2196
A X B X C	11.75	1	11.75	1.504	0.2196
ERROR (WITHIN)	1124.81	144	7.81		

MEANS FOR ALL EFFECTS

A MAIN

1	2
36.858	35.959

B MAIN

1	2
35.540	37.277

C MAIN

1	2
35.094	37.722

A BY B

	1	2
1	35.783	37.932
2	35.297	36.621

A BY C

	1	2
1	35.554	38.162
2	34.635	37.283

B BY C

	1 Pre	2 Post
M 1	34.027	37.054
F 2	36.162	38.391

CELL MEANS (BLOCKS = C LEVELS)

		M 1	F 2
Pre	1	34.081	37.027
	2	33.972	35.297

		1	2
Post	1	37.486	38.837
	2	36.621	37.945

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

LETTERS TEST.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

37 SUBJECTS IN GROUP 1. MALES EXPERIMENTAL

37 SUBJECTS IN GROUP 2. FEMALES EXPERIMENTAL

37 SUBJECTS IN GROUP 3. MALES CONTROL

37 SUBJECTS IN GROUP 4. FEMALES CONTROL

SOURCE	SS	DF	MS	F	P
TOTAL	45046.88	295			
BETWEEN SUBJECTS	33623.88	147			
A (VIEWERS NON VIEWERS)	129.75	1	129.75	0.564	0.5399
B (SEX)	404.43	1	404.43	1.760	0.1933
A X B	17.50	1	17.50	0.076	0.7795
ERROR (BETWEEN)	33072.19	144	229.66		
WITHIN SUBJECTS	11423.00	148			
C (TEST OCCASION)	6048.12	1	6048.12	171.461	0.0000
A X C	264.81	1	264.81	7.507	0.0069
B X C	18.43	1	18.43	0.522	0.5221
A X B X C	12.18	1	12.18	0.345	0.5647
ERROR (WITHIN)	5079.43	144	35.27		

MEANS FOR ALL EFFECTS

A MAIN

1	2
33.317	31.993

B MAIN

1	2
31.486	33.824

C MAIN

1	2
28.135	37.175

A BY B

	1	2
1	32.391	34.243
2	30.581	33.405

A BY C

	1	2
1	27.851	38.783
2	28.418	35.567

B BY C

	1	2
1	27.216	35.756
2	29.054	38.594

CELL MEANS (BLOCKS = C LEVELS)

	1	2
1	26.972	28.729
2	27.459	29.378

	1	2
1	37.810	39.756
2	33.702	37.432

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

FORMS TEST.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

37 SUBJECTS IN GROUP 1. MALES EXPERIMENTAL

37 SUBJECTS IN GROUP 2. FEMALES EXPERIMENTAL

37 SUBJECTS IN GROUP 3. MALES CONTROL

37 SUBJECTS IN GROUP 4. FEMALES CONTROL

SOURCE	SS	DF	MS	F	P
TOTAL	1247.15	295			
BETWEEN SUBJECTS	854.65	147			
A (VIEWERS NON VIEWERS)	15.16	1	15.16	2.617	0.1038
B (SEX)	0.97	1	0.97	0.168	0.6851
A X B	4.13	1	4.13	0.714	0.5958
ERROR (BETWEEN)	834.38	144	5.79		
WITHIN SUBJECTS	392.50	148			
C (TEST OCCASION)	94.21	1	94.21	46.679	0.0000
A X C	3.67	1	3.67	1.823	0.1756
B X C	1.49	1	1.49	0.738	0.6940
A X B X C	2.46	1	2.46	1.219	0.2705
ERROR (WITHIN)	290.64	144	2.01		

MEANS FOR ALL EFFECTS

A MAIN

1	2
4.824	4.371

B MAIN

1	2
4.540	4.655

C MAIN

1	2
4.033	5.162

A BY B

	1	2
1	4.648	5.000
2	4.432	4.310

A BY C

	1	2
1	4.148	5.500
2	3.918	4.824

B BY C

	1	2
1	3.905	5.175
2	4.162	5.148

CELL MEANS (BLOCKS = C LEVELS)

	1	2
1	3.810	4.486
2	4.000	3.837

	1	2
1	5.486	5.513
2	4.864	4.783

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

NUMBERS TEST.

```
 2 A FACET LEVELS
 2 B FACET LEVELS
 2 C FACET LEVELS
 1 CARD(S)-PER-SUBJECT
 2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)
```

37 SUBJECTS IN GROUP 1. MALES EXPERIMENTAL

37 SUBJECTS IN GROUP 2. FEMALES EXPERIMENTAL

37 SUBJECTS IN GROUP 3. MALES CONTROL

37 SUBJECTS IN GROUP 4. FEMALES CONTROL

SOURCE	SS	DF	MS	F	P
TOTAL	35103.75	295			
BETWEEN SUBJECTS	29811.75	147			
A (VIEWERS NON VIEWERS)	13.81	1	13.81	0.067	0.7910
B (SEX)	308.12	1	308.12	1.509	0.2188
A X B	90.87	1	90.87	0.445	0.5128
ERROR (BETWEEN)	29398.94	144	204.15		
WITHIN SUBJECTS	5292.00	148			
C (TEST OCCASION)	2700.12	1	2700.12	154.795	0.0000
A X C	70.06	1	70.06	4.016	0.0441
B X C	9.81	1	9.81	0.562	0.5389
A X B X C	0.18	1	0.18	0.010	0.9141
ERROR (WITHIN)	2511.81	144	17.44		

MEANS FOR ALL EFFECTS

A MAIN

1	2
31.871	32.304

B MAIN

1	2
31.067	33.108

C MAIN

1	2
29.067	35.108

A BY B

	1	2
1	31.405	32.337
2	30.729	33.878

A BY C

	1	2
1	28.364	35.378
2	29.770	34.837

B BY C

	1	2
1	28.229	33.905
2	29.905	36.310

CELL MEANS (BLOCKS = C LEVELS)

	1	2
1	28.054	28.675
2	28.405	31.135

	1	2
1	34.756	36.000
2	33.054	36.621

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

SORTING SKILLS TEST.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

37 SUBJECTS IN GROUP 1. MALES EXPERIMENTAL

37 SUBJECTS IN GROUP 2. FEMALES EXPERIMENTAL

37 SUBJECTS IN GROUP 3. MALES CONTROL

37 SUBJECTS IN GROUP 4. FEMALES CONTROL

SOURCE	SS	DF	MS	F	P
TOTAL	1197.98	295			
BETWEEN SUBJECTS	732.98	147			
A (VIEWERS NON VIEWERS)	1.63	1	1.63	0.326	0.5755
B (SEX)	11.36	1	11.36	2.273	0.1298
A X B	0.12	1	0.12	0.024	0.8710
ERROR (BETWEEN)	719.87	144	4.99		
WITHIN SUBJECTS	465.00	148			
C (TEST OCCASION)	204.44	1	204.44	124.476	0.0000
A X C	16.55	1	16.55	10.079	0.0022
B X C	7.14	1	7.14	4.349	0.0364
A X B X C	0.34	1	0.34	0.209	0.6528
ERROR (WITHIN)	236.51	144	1.64		

MEANS FOR ALL EFFECTS

A MAIN

1	2
9.567	9.418

B MAIN

1	2
9.297	9.689

C MAIN

1	2
8.662	10.324

A BY B

	1	2
1	9.351	9.783
2	9.243	9.594

A BY C

	1	2
1	8.500	10.635
2	8.824	10.013

B BY C

	1 Pre	2 Post
1 M	8.310	10.283
2 F	9.013	10.364

CELL MEANS (BLOCKS = C LEVELS)

	1 (M)	2 (F)	
1 V	8.162	8.837	Pre
2 NV	8.459	9.189	
	1	2	
1 V	10.540	10.729	
2 NV	10.027	10.000	Post
	M	F	

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

RELATIONS TEST.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

37 SUBJECTS IN GROUP 1. MALES EXPERIMENTAL

37 SUBJECTS IN GROUP 2. FEMALES EXPERIMENTAL

37 SUBJECTS IN GROUP 3. MALES CONTROL

37 SUBJECTS IN GROUP 4. FEMALES CONTROL

SOURCE	SS	DF	MS	F	P
TOTAL	978.72	295			
BETWEEN SUBJECTS	745.22	147			
A (VIEWERS NON VIEWERS)	0.08	1	0.08	0.016	0.8949
B (SEX)	1.21	1	1.21	0.237	0.6322
A X B	6.24	1	6.24	1.219	0.2706
ERROR (BETWEEN)	737.67	144	5.12		
WITHIN SUBJECTS	233.50	148			
C (TEST OCCASION)	54.48	1	54.48	44.980	0.0000
A X C	4.14	1	4.14	3.418	0.0630
B X C	0.02	1	0.02	0.022	0.8754
A X B X C	0.40	1	0.40	0.335	0.5705
ERROR (WITHIN)	174.43	144	1.21		

MEANS FOR ALL EFFECTS

A MAIN

1	2
7.986	7.952

B MAIN

1	2
7.905	8.033

C MAIN

1	2
7.540	8.398

A BY B

	1	2
1	8.067	7.905
2	7.743	8.162

A BY C

	1	2
1	7.675	8.297
2	7.405	8.500

B BY C

	1	2
1	7.486	8.324
2	7.594	8.472

CELL MEANS (BLOCKS = C LEVELS)

	1	2
1	7.729	7.621
2	7.243	7.567

	1	2
1	8.405	8.189
2	8.243	8.756

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

CLASSIFICATIONS TEST.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

37 SUBJECTS IN GROUP 1. MALES EXPERIMENTAL

37 SUBJECTS IN GROUP 2. FEMALES EXPERIMENTAL

37 SUBJECTS IN GROUP 3. MALES CONTROL

37 SUBJECTS IN GROUP 4. FEMALES CONTROL

SOURCE	SS	DF	MS	F	P
TOTAL	5892.21	295			
BETWEEN SUBJECTS	3899.21	147			
A (VIEWERS NON VIEWERS)	6.53	1	6.53	0.245	0.6267
B (SEX)	33.78	1	33.78	1.270	0.2605
A X B	28.59	1	28.59	1.074	0.3020
ERROR (BETWEEN)	3830.30	144	26.59		
WITHIN SUBJECTS	1993.00	148			
C (TEST OCCASION)	797.96	1	797.96	99.569	0.0000
A X C	40.87	1	40.87	5.100	0.0238
B X C	0.11	1	0.11	0.014	0.8996
A X B X C	0.01	1	0.01	0.001	0.9637
ERROR (WITHIN)	1154.03	144	8.01		

MEANS FOR ALL EFFECTS

A MAIN

1	2
11.986	11.689

B MAIN

1	2
11.500	12.175

C MAIN

1	2
10.195	13.479

A BY B

	1	2
1	11.959	12.013
2	11.040	12.337

A BY C

	1	2
1	9.972	14.000
2	10.418	12.959

B BY C

	1	2
1	9.837	13.162
2	10.554	13.797

CELL MEANS (BLOCKS = C LEVELS)

	1	2
1	9.918	10.027
2	9.756	11.081

	1	2
1	14.000	14.000
2	12.324	13.594

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

PUZZLES TEST.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

37 SUBJECTS IN GROUP 1. MALES EXPERIMENTAL

37 SUBJECTS IN GROUP 2. FEMALES EXPERIMENTAL

37 SUBJECTS IN GROUP 3. MALES CONTROL

37 SUBJECTS IN GROUP 4. FEMALES CONTROL

SOURCE	SS	DF	MS	F	P
TOTAL	1573.35	295			
BETWEEN SUBJECTS	965.35	147			
A (VIEWERS NON VIEWERS)	0.12	1	0.12	0.018	0.8882
B (SEX)	3.03	1	3.03	0.454	0.5082
A X B	0.05	1	0.05	0.007	0.9257
ERROR (BETWEEN)	962.13	144	6.68		
WITHIN SUBJECTS	608.00	148			
C (TEST OCCASION)	268.66	1	268.66	115.726	0.0000
A X C	4.37	1	4.37	1.885	0.1683
B X C	-0.00	1	-0.00	-0.000	0.9753
A X B X C	0.66	1	0.66	0.286	0.6002
ERROR (WITHIN)	334.29	144	2.32		

MEANS FOR ALL EFFECTS

A MAIN

1	2
6.425	6.385

B MAIN

1	2
6.506	6.304

C MAIN

1	2
5.452	7.358

A BY B

	1	2
1	6.540	6.310
2	6.472	6.297

A BY C

	1	2
1	5.351	7.500
2	5.554	7.216

B BY C

	1	2
1	5.554	7.459
2	5.351	7.256

CELL MEANS (BLOCKS = C LEVELS)

	1	2
1	5.513	5.189
2	5.594	5.513

	1	2
1	7.567	7.432
2	7.351	7.081

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

TOTAL SCORE.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

37 SUBJECTS IN GROUP 1. MALES EXPERIMENTAL

37 SUBJECTS IN GROUP 2. FEMALES EXPERIMENTAL

37 SUBJECTS IN GROUP 3. MALES CONTROL

37 SUBJECTS IN GROUP 4. FEMALES CONTROL

SOURCE	SS	DF	MS	F	P
TOTAL	338249.06	295			
BETWEEN SUBJECTS	263119.06	147			
A (VIEWERS NON VIEWERS)	566.00	1	566.00	0.315	0.5822
B (SEX)	3862.00	1	3862.00	2.151	0.1406
A X B	250.00	1	250.00	0.139	0.7109
ERROR (BETWEEN)	258441.03	144	1794.72		
WITHIN SUBJECTS	75130.01	148			
C (TEST OCCASION)	52153.00	1	52153.00	348.509	0.0000
A X C	1361.00	1	1361.00	9.094	0.0033
B X C	-2.00	1	-2.00	-0.013	0.9040
A X B X C	69.00	1	69.00	0.461	0.5053
ERROR (WITHIN)	21549.00	144	149.64		

MEANS FOR ALL EFFECTS

A MAIN

1	2
142.837	140.074

B MAIN

1	2
137.844	145.067

C MAIN

1	2
128.182	154.729

A BY B

	1	2
1	140.148	145.527
2	135.540	144.608

A BY C

	1 Pre	2 Post
1V	127.418	158.256
2NV	128.945	151.202

B BY C

	1 Pre	2 Post
1M	124.567	151.121
2F	131.797	158.337

CELL MEANS (BLOCKS = C LEVELS)

		Pre 1 Males	Pre 2 Females	
1	V	124.243	130.594	Pre
2	NV	124.891	133.000	

		Males 1 Post	Females 2 Post	
1	V	156.054	160.459	Post
2	NV	146.189	156.216	

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

BODY PARTS TEST.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

APPENDIX F

PRETEST-POSTTEST MEANS AND ANOVA SUMMARIES

ON PERFORMANCE OF FOUR, FIVE, AND SIX YEAR OLDS

32 SUBJECTS IN GROUP 1. EXPERIMENTAL 4 YEAR OLDS

32 SUBJECTS IN GROUP 2. EXPERIMENTAL 5 YEAR OLDS

32 SUBJECTS IN GROUP 3. CONTROL 4 YEAR OLDS

32 SUBJECTS IN GROUP 4. CONTROL 5 YEAR OLDS

SOURCE	SS	DF	MS	F	P
TOTAL	7075.62	255			
BETWEEN SUBJECTS	5461.62	127			
A (VIEWERS NON VIEWERS)	105.06	1	105.06	2.953	0.0843
B (AGE)	892.50	1	892.50	25.086	0.0000
A X B	52.56	1	52.56	1.477	0.2242
ERROR (BETWEEN)	4411.50	124	35.57		
WITHIN SUBJECTS	1614.00	128			
C (TEST OCCASION)	576.00	1	576.00	72.673	0.0000
A X C	1.87	1	1.87	0.236	0.6332
B X C	52.56	1	52.56	6.631	0.0108
A X B X C	0.75	1	0.75	0.094	0.7569
ERROR (WITHIN)	982.81	124	7.92		

MEANS FOR ALL EFFECTS

A MAIN

1	2
36.601	35.320

B MAIN

1	2
34.093	37.828

C MAIN

1	2
34.460	37.460

A BY B

	1	2
1	35.187	38.015
2	33.000	37.640

A BY C

	1	2
1	35.187	38.015
2	33.734	36.906

B BY C

	1	2
1	32.140	36.046
2	36.781	38.875

CELL MEANS (BLOCKS = C LEVELS)

		1 (4)	2 (5)
Pre	1 V_4	33.375	37.000 V_5
	2 Non V_4	30.906	36.562 Non V_5
		1	2
Post	1 V_4	37.000	39.031 V_5
	2 Non V_4	35.093	38.718 Non V_5

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

LETTERS TEST.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

32 SUBJECTS IN GROUP 1. EXPERIMENTAL 4 YEAR OLDS

32 SUBJECTS IN GROUP 2. EXPERIMENTAL 5 YEAR OLDS

32 SUBJECTS IN GROUP 3. CONTROL 4 YEAR OLDS

32 SUBJECTS IN GROUP 4. CONTROL 5 YEAR OLDS

SOURCE	SS	DF	MS	F	P
TOTAL	37257.75	255			
BETWEEN SUBJECTS	29135.75	127			
A (VIEWERS NON VIEWERS)	210.25	1	210.25	1.034	0.3118
B (AGE)	3690.56	1	3690.56	18.165	0.0001
A X B	42.21	1	42.21	0.207	0.6540
ERROR (BETWEEN)	25192.72	124	203.16		
WITHIN SUBJECTS	8122.00	128			
C (TEST OCCASION)	4257.56	1	4257.56	155.342	0.0000
A X C	370.56	1	370.56	13.520	0.0006
B X C	95.03	1	95.03	3.467	0.0615
A X B X C	0.31	1	0.31	0.011	0.9115
ERROR (WITHIN)	3398.53	124	27.40		

MEANS FOR ALL EFFECTS

A MAIN

1	2
32.062	30.250

B MAIN

1	2
27.359	34.953

C MAIN

1	2
27.078	35.234

A BY B

	1	2
1	28.671	35.453
2	26.046	34.453

A BY C

	1	2
1	26.781	37.343
2	27.375	33.125

B BY C

	1	2
1	23.890	30.828
2	30.265	39.640

CELL MEANS (BLOCKS = C LEVELS)

	1	2
1	24.031	29.531
2	23.750	31.000

	1	2
1	33.312	41.375
2	28.343	37.906

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

FORMS TEST.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

32 SUBJECTS IN GROUP 1. EXPERIMENTAL 4 YEAR OLDS

32 SUBJECTS IN GROUP 2. EXPERIMENTAL 5 YEAR OLDS

32 SUBJECTS IN GROUP 3. CONTROL 4 YEAR OLDS

32 SUBJECTS IN GROUP 4. CONTROL 5 YEAR OLDS

SOURCE	SS	DF	MS	F	P
TOTAL	1168.10	255			
BETWEEN SUBJECTS	798.10	127			
A (VIEWERS NON VIEWERS)	18.06	1	18.06	3.230	0.0710
B (AGE)	85.56	1	85.56	15.305	0.0003
A X B	1.26	1	1.26	0.226	0.6404
ERROR (BETWEEN)	693.21	124	5.59		
WITHIN SUBJECTS	370.00	128			
C (TEST OCCASION)	112.89	1	112.89	57.807	0.0000
A X C	4.00	1	4.00	2.048	0.1511
B X C	10.56	1	10.56	5.408	0.0204
A X B X C	0.39	1	0.39	0.200	0.6599
ERROR (WITHIN)	242.15	124	1.95		

MEANS FOR ALL EFFECTS

A MAIN

1	2
4.679	4.148

B MAIN

1	2
3.835	4.992

C MAIN

1	2
3.750	5.078

A BY B

	1	2
1	4.031	5.328
2	3.640	4.656

A BY C

	1	2
1	3.890	5.468
2	3.609	4.687

B BY C

	1	2
1	2.968	4.703
2	4.531	5.453

CELL MEANS (BLOCKS = C LEVELS)

	1	2
1	3.000	4.781
2	2.937	4.281

	1	2
1	5.062	5.875
2	4.343	5.031

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

NUMBERS TEST.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

32 SUBJECTS IN GROUP 1. EXPERIMENTAL 4 YEAR OLDS

32 SUBJECTS IN GROUP 2. EXPERIMENTAL 5 YEAR OLDS

32 SUBJECTS IN GROUP 3. CONTROL 4 YEAR OLDS

32 SUBJECTS IN GROUP 4. CONTROL 5 YEAR OLDS

SOURCE	SS	DF	MS	F	P
TOTAL	29750.94	255			
BETWEEN SUBJECTS	24765.94	127			
A (VIEWERS NON VIEWERS)	6.87	1	6.87	0.048	0.8211
B (AGE)	6972.25	1	6972.25	48.947	0.0000
A X B	123.75	1	123.75	0.868	0.6443
ERROR (BETWEEN)	17663.06	124	142.44		
WITHIN SUBJECTS	4985.00	128			
C (TEST OCCASION)	2462.62	1	2462.62	133.122	0.0000
A X C	203.09	1	203.09	10.978	0.0015
B X C	0.37	1	0.37	0.020	0.8819
A X B X C	25.03	1	25.03	1.353	0.2453
ERROR (WITHIN)	2293.87	124	18.49		

MEANS FOR ALL EFFECTS

A MAIN

1	2
30.273	29.945

B MAIN

1	2
24.890	35.328

C MAIN

1	2
27.007	33.210

A BY B

	1	2
1	25.750	34.796
2	24.031	35.859

A BY C

	1	2
1	26.281	34.265
2	27.734	32.156

B BY C

	1	2
1	21.750	28.031
2	32.265	38.390

CELL MEANS (BLOCKS = C LEVELS)

	1	2
1	21.406	31.156
2	22.093	33.375

	1	2
1	30.093	38.437
2	25.968	38.343

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

SORTING SKILLS TEST.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

32 SUBJECTS IN GROUP 1. EXPERIMENTAL 4 YEAR OLDS

32 SUBJECTS IN GROUP 2. EXPERIMENTAL 5 YEAR OLDS

32 SUBJECTS IN GROUP 3. CONTROL 4 YEAR OLDS

32 SUBJECTS IN GROUP 4. CONTROL 5 YEAR OLDS

SOURCE	SS	DF	MS	F	P
TOTAL	1051.65	255			
BETWEEN SUBJECTS	635.15	127			
A (VIEWERS NON VIEWERS)	7.91	1	7.91	1.797	0.1792
B (AGE)	77.66	1	77.66	17.642	0.0001
A X B	3.75	1	3.75	0.852	0.6397
ERROR (BETWEEN)	545.82	124	4.40		
WITHIN SUBJECTS	416.50	128			
C (TEST OCCASION)	167.37	1	167.37	90.825	0.0000
A X C	19.69	1	19.69	10.685	0.0017
B X C	0.03	1	0.03	0.019	0.8854
A X B X C	0.87	1	0.87	0.476	0.5017
ERROR (WITHIN)	228.51	124	1.84		

MEANS FOR ALL EFFECTS

A MAIN

1	2
9.320	8.968

B MAIN

1	2
8.593	9.695

C MAIN

1	2
8.335	9.953

A BY B

	1	2
1	8.890	9.750
2	8.296	9.640

A BY C

	1	2
1	8.234	10.406
2	8.437	9.500

B BY C

	1	2
1	7.796	9.390
2	8.875	10.515

CELL MEANS (BLOCKS = C LEVELS)

	1	2
1	7.875	8.593
2	7.718	9.156

	1	2
1	9.906	10.906
2	8.875	10.125

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

RELATIONS TEST.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

32 SUBJECTS IN GROUP 1. EXPERIMENTAL 4 YEAR OLDS

32 SUBJECTS IN GROUP 2. EXPERIMENTAL 5 YEAR OLDS

32 SUBJECTS IN GROUP 3. CONTROL 4 YEAR OLDS

32 SUBJECTS IN GROUP 4. CONTROL 5 YEAR OLDS

SOURCE	SS	DF	MS	F	P
TOTAL	719.62	255			
BETWEEN SUBJECTS	509.12	127			
A (VIEWERS NON VIEWERS)	3.28	1	3.28	0.952	0.6678
B (AGE)	75.47	1	75.47	21.890	0.0000
A X B	2.84	1	2.84	0.825	0.6316
ERROR (BETWEEN)	427.51	124	3.44		
WITHIN SUBJECTS	210.50	128			
C (TEST OCCASION)	55.31	1	55.31	45.308	0.0000
A X C	1.41	1	1.41	1.155	0.2843
B X C	0.31	1	0.31	0.259	0.6178
A X B X C	2.06	1	2.06	1.692	0.1926
ERROR (WITHIN)	151.39	124	1.22		

MEANS FOR ALL EFFECTS

A MAIN

1	2
7.921	7.695

B MAIN

1	2
7.265	8.351

C MAIN

1	2
7.343	8.273

A BY B

	1	2
1	7.484	8.359
2	7.046	8.343

A BY C

	1	2
1	7.531	8.312
2	7.156	8.234

B BY C

	1	2
1	6.765	7.765
2	7.921	8.781

CELL MEANS (BLOCKS = C LEVELS)

	1	2
1	6.968	8.093
2	6.562	7.750

	1	2
1	8.000	8.625
2	7.531	8.937

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

CLASSIFICATIONS TEST.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

32 SUBJECTS IN GROUP 1. EXPERIMENTAL 4 YEAR OLDS

32 SUBJECTS IN GROUP 2. EXPERIMENTAL 5 YEAR OLDS

32 SUBJECTS IN GROUP 3. CONTROL 4 YEAR OLDS

32 SUBJECTS IN GROUP 4. CONTROL 5 YEAR OLDS

SOURCE	SS	DF	MS	F	P
TOTAL	4734.00	255			
BETWEEN SUBJECTS	2851.00	127			
A (VIEWERS NON VIEWERS)	27.56	1	27.56	1.617	0.2029
B (AGE)	656.64	1	656.64	38.545	0.0000
A X B	54.39	1	54.39	3.192	0.0727
ERROR (BETWEEN)	2112.40	124	17.03		
WITHIN SUBJECTS	1883.00	128			
C (TEST OCCASION)	770.06	1	770.06	92.743	0.0000
A X C	52.56	1	52.56	6.330	0.0126
B X C	1.89	1	1.89	0.227	0.6395
A X B X C	28.89	1	28.89	3.479	0.0611
ERROR (WITHIN)	1029.59	124	8.30		

MEANS FOR ALL EFFECTS

A MAIN

1	2
11.453	10.796

B MAIN

1	2
9.523	12.726

C MAIN

1	2
9.390	12.859

A BY B

	1	2
1	10.312	12.593
2	8.734	12.859

A BY C

	1	2
1	9.265	13.640
2	9.515	12.078

B BY C

	1	2
1	7.703	11.343
2	11.078	14.375

CELL MEANS (BLOCKS = C LEVELS)

	1	2
1	8.375	10.156
2	7.031	12.000

	1	2
1	12.250	15.031
2	10.437	13.718

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

PUZZLES TEST.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

32 SUBJECTS IN GROUP 1. EXPERIMENTAL 4 YEAR OLDS

32 SUBJECTS IN GROUP 2. EXPERIMENTAL 5 YEAR OLDS

32 SUBJECTS IN GROUP 3. CONTROL 4 YEAR OLDS

32 SUBJECTS IN GROUP 4. CONTROL 5 YEAR OLDS

SOURCE	SS	DF	MS	F	P
TOTAL	1422.00	255			
BETWEEN SUBJECTS	848.00	127			
A (VIEWERS NON VIEWERS)	4.51	1	4.51	0.874	0.6460
B (AGE)	192.51	1	192.51	37.276	0.0000
A X B	10.56	1	10.56	2.045	0.1514
ERROR (BETWEEN)	640.40	124	5.16		
WITHIN SUBJECTS	574.00	128			
C (TEST OCCASION)	272.25	1	272.25	117.053	0.0000
A X C	8.26	1	8.26	3.553	0.0584
B X C	0.01	1	0.01	0.006	0.9325
A X B X C	5.06	1	5.06	2.176	0.1387
ERROR (WITHIN)	288.40	124	2.32		

MEANS FOR ALL EFFECTS

A MAIN

1	2
6.257	5.992

B MAIN

1	2
5.257	6.992

C MAIN

1	2
5.093	7.156

A BY B

	1	2
1	5.593	6.921
2	4.921	7.062

A BY C

	1	2
1	5.046	7.468
2	5.140	6.843

B BY C

	1	2
1	4.234	6.281
2	5.953	8.031

CELL MEANS (BLOCKS = C LEVELS)

	1	2
1	4.531	5.562
2	3.937	6.343

	1	2
1	6.656	8.281
2	5.906	7.781

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

TOTAL SCORE.

2 A FACET LEVELS
2 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

32 SUBJECTS IN GROUP 1. EXPERIMENTAL 4 YEAR OLDS

32 SUBJECTS IN GROUP 2. EXPERIMENTAL 5 YEAR OLDS

32 SUBJECTS IN GROUP 3. CONTROL 4 YEAR OLDS

32 SUBJECTS IN GROUP 4. CONTROL 5 YEAR OLDS

SOURCE	SS	DF	MS	F	P
TOTAL	274950.06	255			
BETWEEN SUBJECTS	211626.03	127			
A (VIEWERS NON VIEWERS)	1903.00	1	1903.00	1.552	0.2126
B (AGE)	56228.00	1	56228.00	45.860	0.0000
A X B	1463.00	1	1463.00	1.193	0.2762
ERROR (BETWEEN)	152032.03	124	1226.06		
WITHIN SUBJECTS	63324.00	128			
C (TEST OCCASION)	45849.00	1	45849.00	374.252	0.0000
A X C	2256.00	1	2256.00	18.415	0.0001
B X C	14.00	1	14.00	0.114	0.7355
A X B X C	14.00	1	14.00	0.114	0.7355
ERROR (WITHIN)	15191.00	124	122.50		

MEANS FOR ALL EFFECTS

A MAIN

1	2
138.570	133.117

B MAIN

1	2
121.023	150.664

C MAIN

1	2
122.460	149.226

A BY B

	1	2
1	126.140	151.000
2	115.906	150.328

A BY C

	1	2
1	122.218	154.921
2	122.703	143.531

B BY C

	1	2
1	107.406	134.640
2	137.515	163.812

CELL MEANS (BLOCKS = C LEVELS)

	1	2
1	109.781	134.656
2	105.031	140.375

	1	2
1	142.500	167.343
2	126.781	160.281

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 BODY PARTS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   34 SUBJECTS.      EXPERIMENTAL 4 YEAR OLDS

GROUP 2.   32 SUBJECTS.      CONTROL 4 YEAR OLDS


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL            36.168      131.
BETWEEN          54.400       65.
 GROUPS         156.156        1.       2.9568      0.0865
 ERROR (G)       52.811       64.
WITHIN           18.212       66.
 TRIALS         496.486        1.      45.2274      0.0000
 G BY T           2.950        1.       0.2688      0.6121
 ERROR (T)       10.977       64.


GROUP MEANS

          1        2
     35.176   33.000


TRIAL MEANS

          1        2
     32.181   36.060


GROUPS BY TRIALS

          1        2
 1   33.382   36.970
 2   30.906   35.093
```

```
VO , ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 LETTERS

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   34 SUBJECTS.      EXPERIMENTAL 4 YEAR OLDS

GROUP 2.   32 SUBJECTS.      CONTROL 4 YEAR OLDS


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.     F-RATIO        P

TOTAL           121.877      131.
BETWEEN         188.814       65.
 GROUPS         272.687        1.       1.4543     0.2303
 ERROR (G)      187.503       64.
WITHIN           55.954       66.
 TRIALS        1730.952        1.      63.8961     0.0000
 G BY T         228.282        1.       8.4267     0.0052
 ERROR (T)       27.090       64.


GROUP MEANS

              1         2
         28.985    26.109


TRIAL MEANS

              1         2
         23.969    31.212


GROUPS BY TRIALS

              1         2
 1       24.088    33.882
 2       23.843    28.375
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 FORMS TEST

  1 DEPENDENT VARIABLE(S).
  2 GROUP(S).
  2 TRIAL(S) PER SUBJECT.
  1 CARD(S) PER SUBJECT.
  2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   34 SUBJECTS.      EXPERIMENTAL 4 YEAR OLDS

GROUP 2.   32 SUBJECTS.      CONTROL 4 YEAR OLDS


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO         P

TOTAL             4.736      131.
BETWEEN           5.946       65.
 GROUPS           7.972        1.      1.3478      0.2485
 ERROR (G)        5.914       64.
WITHIN            3.545       66.
 TRIALS         105.485        1.     54.4474      0.0000
 G BY T           4.522        1.      2.3345      0.1275
 ERROR (T)        1.937       64.

GROUP MEANS

              1        2
          4.132    3.640

TRIAL MEANS

              1        2
          3.000    4.787

GROUPS BY TRIALS

              1        2
 1        3.058    5.205
 2        2.937    4.343
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 NUMBERS TEST

  1 DEPENDENT VARIABLE(S).
  2 GROUP(S).
  2 TRIAL(S) PER SUBJECT.
  1 CARD(S) PER SUBJECT.
  2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.    34 SUBJECTS.      EXPERIMENTAL 4 YEAR OLDS

GROUP 2.    32 SUBJECTS.      CONTROL 4 YEAR OLDS


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE     D.F.      F-RATIO         P

TOTAL           98.896      131.
BETWEEN        155.046       65.
 GROUPS         72.562        1.       0.4641      0.5051
 ERROR (G)     156.334       64.
WITHIN          43.598       66.
 TRIALS       1355.545        1.      65.5976      0.0000
 G BY T        199.423        1.       9.6505      0.0031
 ERROR (T)      20.664       64.

GROUP MEANS

              1         2
          25.514    24.031

TRIAL MEANS

              1         2
          21.590    28.000

GROUPS BY TRIALS

              1         2
 1        21.117    29.911
 2        22.093    25.968
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 SORTING SKILLS TEST

  1 DEPENDENT VARIABLE(S).
  2 GROUP(S).
  2 TRIAL(S) PER SUBJECT.
  1 CARD(S) PER SUBJECT.
  2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.    34 SUBJECTS.      EXPERIMENTAL 4 YEAR OLDS

GROUP 2.    32 SUBJECTS.      CONTROL 4 YEAR OLDS


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE     D.F.      F-RATIO         P

TOTAL             4.747      131.
BETWEEN           5.814       65.
 GROUPS          10.740        1.      1.8720      0.1726
 ERROR (G)        5.737       64.
WITHIN            3.696       66.
 TRIALS          95.031        1.     43.4774      0.0000
 G BY T           9.079        1.      4.1541      0.0430
 ERROR (T)        2.185       64.


GROUP MEANS

          1         2
      8.867     8.296


TRIAL MEANS

          1         2
      7.742     9.439


GROUPS BY TRIALS

          1         2
 1    7.764     9.970
 2    7.718     8.875
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 RELATIONS TEST

  1 DEPENDENT VARIABLE(S).
  2 GROUP(S).
  2 TRIAL(S) PER SUBJECT.
  1 CARD(S) PER SUBJECT.
  2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   34 SUBJECTS.      EXPERIMENTAL 4 YEAR OLDS

GROUP 2.   32 SUBJECTS.      CONTROL 4 YEAR OLDS


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL             3.275      131.
BETWEEN           4.677       65.
 GROUPS           7.216        1.      1.5559      0.2143
 ERROR (G)        4.638       64.
WITHIN            1.893       66.
 TRIALS          33.000        1.     22.9647      0.0000
 G BY T           0.029        1.      0.0204      0.8816
 ERROR (T)        1.437       64.

GROUP MEANS

          1       2
      7.514   7.046

TRIAL MEANS

          1       2
      6.787   7.787

GROUPS BY TRIALS

          1       2
 1    7.000   8.029
 2    6.562   7.531
```

V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

CLASSIFICATION SKILLS TEST

1 DEPENDENT VARIABLE(S).
2 GROUP(S).
2 TRIAL(S) PER SUBJECT.
1 CARD(S) PER SUBJECT.
2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1. 34 SUBJECTS. EXPERIMENTAL 4 YEAR OLDS

GROUP 2. 32 SUBJECTS. CONTROL 4 YEAR OLDS

VARIABLE 1 ANALYSIS.

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	18.964	131.		
BETWEEN	22.105	65.		
GROUPS	86.371	1.	4.0930	0.0445
ERROR (G)	21.101	64.		
WITHIN	15.871	66.		
TRIALS	447.341	1.	47.8919	0.0000
G BY T	2.357	1.	0.2524	0.6229
ERROR (T)	9.340	64.		

GROUP MEANS

1	2
10.352	8.734

TRIAL MEANS

1	2
7.727	11.409

GROUPS BY TRIALS

	1	2
1	8.382	12.323
2	7.031	10.437

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 PUZZLES TEST

  1 DEPENDENT VARIABLE(S).
  2 GROUP(S).
  2 TRIAL(S) PER SUBJECT.
  1 CARD(S) PER SUBJECT.
  2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.    34 SUBJECTS.      EXPERIMENTAL 4 YEAR OLDS

GROUP 2.    32 SUBJECTS.      CONTROL 4 YEAR OLDS


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE     D.F.      F-RATIO         P

TOTAL             5.042     131.
BETWEEN           5.786      65.
 GROUPS          15.960       1.       2.8360      0.0932
 ERROR (G)        5.627      64.
WITHIN            4.310      66.
 TRIALS         130.007       1.      53.8597      0.0000
 G BY T           0.007       1.       0.0032      0.9532
 ERROR (T)        2.413      64.


GROUP MEANS

          1       2
      5.617   4.921


TRIAL MEANS

          1       2
      4.287   6.272


GROUPS BY TRIALS

          1       2
 1    4.617   6.617
 2    3.937   5.906
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 TOTAL SCORE

  1 DEPENDENT VARIABLE(S).
  2 GROUP(S).
  2 TRIAL(S) PER SUBJECT.
  1 CARD(S) PER SUBJECT.
  2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   34 SUBJECTS.      EXPERIMENTAL 4 YEAR OLDS

GROUP 2.   32 SUBJECTS.      CONTROL 4 YEAR OLDS


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO         P

TOTAL          1026.106      131.
BETWEEN        1513.461       65.
 GROUPS        3762.000        1.       2.5447      0.1116
 ERROR (G)     1478.328       64.
WITHIN          546.136       66.
 TRIALS       25704.304        1.     179.5394      0.0000
 G BY T        1177.949        1.       8.2277      0.0057
 ERROR (T)      143.167       64.


GROUP MEANS

              1         2
          126.588   115.906


TRIAL MEANS

              1         2
          107.454   135.363


GROUPS BY TRIALS

              1         2
 1        109.735   143.441
 2        105.031   126.781
```

V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

BODY PARTS TEST

1 DEPENDENT VARIABLE(S).
2 GROUP(S).
2 TRIAL(S) PER SUBJECT.
1 CARD(S) PER SUBJECT.
2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1. 47 SUBJECTS. EXPERIMENTAL 5 YEAR OLDS

GROUP 2. 53 SUBJECTS. CONTROL 5 YEAR OLDS

VARIABLE 1 ANALYSIS.

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	14.026	199.		
BETWEEN	19.522	99.		
GROUPS	0.812	1.	0.0412	0.8338
ERROR (G)	19.713	98.		
WITHIN	8.585	100.		
TRIALS	271.489	1.	45.3543	0.0000
G BY T	0.385	1.	0.0643	0.7959
ERROR (T)	5.985	98.		

GROUP MEANS

1	2
37.723	37.594

TRIAL MEANS

1	2
36.490	38.820

GROUPS BY TRIALS

	1	2
1	36.510	38.936
2	36.471	38.716

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 LETTERS

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   47 SUBJECTS.      EXPERIMENTAL 5 YEAR OLDS

GROUP 2.   53 SUBJECTS.      CONTROL 5 YEAR OLDS


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE     D.F.      F-RATIO         P

TOTAL           143.014     199.
BETWEEN         207.812      99.
 GROUPS         202.937       1.       0.9763      0.6734
 ERROR (G)      207.861      98.
WITHIN           78.865     100.
 TRIALS        4675.466       1.     150.2157      0.0000
 G BY T         160.784       1.       5.1657      0.0237
 ERROR (T)       31.125      98.


GROUP MEANS

              1         2
          35.744    33.726


TRIAL MEANS

              1         2
          29.840    39.510


GROUPS BY TRIALS

              1         2
 1        29.957    41.531
 2        29.735    37.716
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 FORMS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   47 SUBJECTS.      EXPERIMENTAL 5 YEAR OLDS

GROUP 2.   53 SUBJECTS.      CONTROL 5 YEAR OLDS

VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE     D.F.     F-RATIO        P

TOTAL             3.763     199.
BETWEEN           5.045      99.
 GROUPS           7.561       1.      1.5064     0.2203
 ERROR (G)        5.019      98.
WITHIN            2.495     100.
 TRIALS          63.845       1.     34.5289     0.0000
 G BY T           4.449       1.      2.4065     0.1200
 ERROR (T)        1.849      98.

GROUP MEANS

          1       2
      5.191   4.801

TRIAL MEANS

          1       2
      4.420   5.550

GROUPS BY TRIALS

          1       2
 1    4.468   5.914
 2    4.377   5.226
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 NUMBERS TEST

  1 DEPENDENT VARIABLE(S).
  2 GROUP(S).
  2 TRIAL(S) PER SUBJECT.
  1 CARD(S) PER SUBJECT.
  2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.    47 SUBJECTS.      EXPERIMENTAL 5 YEAR OLDS

GROUP 2.    53 SUBJECTS.      CONTROL 5 YEAR OLDS


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO         P

TOTAL           82.304      199.
BETWEEN        132.162       99.
 GROUPS         70.500        1.       0.5309      0.5251
 ERROR (G)     132.792       98.
WITHIN          32.945      100.
 TRIALS       1915.804        1.     140.3318      0.0000
 G BY T         40.769        1.       2.9862      0.0833
 ERROR (T)      13.652       98.


GROUP MEANS

          1        2
       34.574   35.764


TRIAL MEANS

          1        2
       32.100   38.300


GROUPS BY TRIALS

          1        2
 1     31.000   38.148
 2     33.094   38.433
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 SORTING SKILLS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   47 SUBJECTS.      EXPERIMENTAL 5 YEAR OLDS

GROUP 2.   53 SUBJECTS.      CONTROL 5 YEAR OLDS


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL             3.187      199.
BETWEEN           3.215       99.
 GROUPS           0.054        1.       0.0168      0.8923
 ERROR (G)        3.247       98.
WITHIN            3.160      100.
 TRIALS         154.880        1.     104.6298      0.0000
 G BY T          16.053        1.      10.8448      0.0017
 ERROR (T)        1.480       98.


GROUP MEANS

          1         2
      9.797     9.764


TRIAL MEANS

          1         2
      8.900    10.660


GROUPS BY TRIALS

          1         2
 1    8.617    10.978
 2    9.150    10.377
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 RELATIONS TEST

  1 DEPENDENT VARIABLE(S).
  2 GROUP(S).
  2 TRIAL(S) PER SUBJECT.
  1 CARD(S) PER SUBJECT.
  2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   47 SUBJECTS.      EXPERIMENTAL 5 YEAR OLDS

GROUP 2.   53 SUBJECTS.      CONTROL 5 YEAR OLDS


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE     D.F.     F-RATIO        P

TOTAL             2.593     199.
BETWEEN           3.556      99.
 GROUPS           2.357       1.       0.6606     0.5762
 ERROR (G)        3.568      98.
WITHIN            1.640     100.
 TRIALS          40.500       1.      33.0885     0.0000
 G BY T           3.548       1.       2.8993     0.0879
 ERROR (T)        1.223      98.

GROUP MEANS

              1       2
          8.244   8.462

TRIAL MEANS

              1       2
          7.910   8.810

GROUPS BY TRIALS

              1       2
 1        7.936   8.553
 2        7.886   9.037
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 CLASSIFICATION SKILLS TEST

  1 DEPENDENT VARIABLE(S).
  2 GROUP(S).
  2 TRIAL(S) PER SUBJECT.
  1 CARD(S) PER SUBJECT.
  2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   47 SUBJECTS.      EXPERIMENTAL 5 YEAR OLDS

GROUP 2.   53 SUBJECTS.      CONTROL 5 YEAR OLDS


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO         P

TOTAL            13.791      199.
BETWEEN          15.536       99.
 GROUPS          10.406        1.       0.6675      0.5787
 ERROR (G)       15.588       98.
WITHIN           12.065      100.
 TRIALS         534.651        1.      85.8310      0.0000
 G BY T          61.395        1.       9.8562      0.0026
 ERROR (T)        6.229       98.

GROUP MEANS

              1        2
          12.712   13.169

TRIAL MEANS

              1        2
          11.320   14.590

GROUPS BY TRIALS

              1        2
 1        10.489   14.936
 2        12.056   14.283
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 PUZZLES TEST

  1 DEPENDENT VARIABLE(S).
  2 GROUP(S).
  2 TRIAL(S) PER SUBJECT.
  1 CARD(S) PER SUBJECT.
  2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   47 SUBJECTS.      EXPERIMENTAL 5 YEAR OLDS

GROUP 2.   53 SUBJECTS.      CONTROL 5 YEAR OLDS


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL             4.508      199.
BETWEEN           6.942       99.
 GROUPS           1.865        1.       0.3750      0.5488
 ERROR (G)        4.973       98.
WITHIN            4.080      100.
 TRIALS         186.181        1.      90.7797      0.0000
 G BY T          16.670        1.       8.0418      0.0057
 ERROR (T)        2.072       98.


GROUP MEANS

          1         2
      6.957     7.150


TRIAL MEANS

          1         2
      6.090     8.030


GROUPS BY TRIALS

          1         2
 1    5.680     8.234
 2    6.452     7.849
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 TOTAL SCORE

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   47 SUBJECTS.      EXPERIMENTAL 5 YEAR OLDS

GROUP 2.   53 SUBJECTS.      CONTROL 5 YEAR OLDS


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL           775.522      199.
BETWEEN        1068.525       99.
 GROUPS           4.000        1.       0.0037      0.9502
 ERROR (G)     1079.387       98.
WITHIN          485.450      100.
 TRIALS       36558.765        1.     334.8060      0.0000
 G BY T        1285.242        1.      11.7702      0.0012
 ERROR (T)      109.193       98.


GROUP MEANS

              1         2
          150.638   150.358

TRIAL MEANS

              1         2
          136.970   164.010

GROUPS BY TRIALS

              1         2
 1        134.425   166.851
 2        139.226   161.490
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 BODY PARTS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   11 SUBJECTS.      EXPERIMENTAL 6 YEAR OLDS

GROUP 2.    8 SUBJECTS.      CONTROL 6 YEAR OLDS


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL             6.810      37.
BETWEEN          10.166      18.
 GROUPS           1.726       1.       0.1619      0.6941
 ERROR (G)       10.663      17.
WITHIN            3.631      19.
 TRIALS          15.157       1.       4.8200      0.0402
 G BY T           0.381       1.       0.1212      0.7312
 ERROR (T)        3.144      17.


GROUP MEANS

            1         2
       38.818    39.250


TRIAL MEANS

            1         2
       38.368    39.631


GROUPS BY TRIALS

            1         2
 1     38.272    39.363
 2     38.500    40.000
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 LETTERS

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   11 SUBJECTS.      EXPERIMENTAL 6 YEAR OLDS

GROUP 2.    8 SUBJECTS.      CONTROL 6 YEAR OLDS


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL           136.779       37.
BETWEEN         201.491       18.
 GROUPS         293.093        1.       1.4945      0.2367
 ERROR (G)      196.102       17.
WITHIN           75.473       19.
 TRIALS         760.528        1.      19.2047      0.0006
 G BY T           0.253        1.       0.0063      0.9350
 ERROR (T)       39.601       17.


GROUP MEANS

              1         2
          39.000    44.625


TRIAL MEANS

              1         2
          36.894    45.842


GROUPS BY TRIALS

              1         2
 1        34.454    43.545
 2        40.250    49.000
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 FORMS TEST

  1 DEPENDENT VARIABLE(S).
  2 GROUP(S).
  2 TRIAL(S) PER SUBJECT.
  1 CARD(S) PER SUBJECT.
  2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.    11 SUBJECTS.      EXPERIMENTAL 6 YEAR OLDS

GROUP 2.     8 SUBJECTS.      CONTROL 6 YEAR OLDS


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE     D.F.     F-RATIO        P

TOTAL             2.844     37.
BETWEEN           3.681     18.
 GROUPS           0.808      1.      0.2100      0.6564
 ERROR (G)        3.850     17.
WITHIN            2.052     19.
 TRIALS           0.000      1.      0.0000      0.9927
 G BY T           0.431      1.      0.1902      0.6712
 ERROR (T)        2.268     17.

GROUP MEANS

          1         2
      5.545     5.250

TRIAL MEANS

          1         2
      5.421     5.421

GROUPS BY TRIALS

          1         2
 1    5.636     5.454
 2    5.125     5.375
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 NUMBERS TEST

  1 DEPENDENT VARIABLE(S).
  2 GROUP(S).
  2 TRIAL(S) PER SUBJECT.
  1 CARD(S) PER SUBJECT.
  2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   11 SUBJECTS.      EXPERIMENTAL 6 YEAR OLDS

GROUP 2.    8 SUBJECTS.      CONTROL 6 YEAR OLDS


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE     D.F.     F-RATIO        P

TOTAL          29.659       37.
BETWEEN        43.050       18.
 GROUPS        79.625        1.      1.9468      0.1782
 ERROR (G)     40.898       17.
WITHIN         16.973       19.
 TRIALS       104.458        1.      8.1928      0.0104
 G BY T         1.291        1.      0.1012      0.7520
 ERROR (T)     12.750       17.

GROUP MEANS

          1        2
       41.318   44.250

TRIAL MEANS

          1        2
       40.894   44.210

GROUPS BY TRIALS

          1        2
 1     39.818   42.818
 2     42.375   46.125
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 SORTING SKILLS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   11 SUBJECTS.      EXPERIMENTAL 6 YEAR OLDS

GROUP 2.    8 SUBJECTS.      CONTROL 6 YEAR OLDS


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE     D.F.     F-RATIO        P

TOTAL             1.576     37.
BETWEEN           1.255     18.
 GROUPS           1.423      1.      1.1056     0.3084
 ERROR (G)        1.287     17.
WITHIN            1.842     19.
 TRIALS          20.632      1.     24.6832     0.0002
 G BY T           0.157      1.      0.1888     0.6723
 ERROR (T)        0.835     17.


GROUP MEANS

          1        2
     10.954   10.562


TRIAL MEANS

          1        2
     10.052   11.526


GROUPS BY TRIALS

          1        2
 1   10.272   11.636
 2    9.750   11.375
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 RELATIONS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   11 SUBJECTS.      EXPERIMENTAL 6 YEAR OLDS

GROUP 2.    8 SUBJECTS.      CONTROL 6 YEAR OLDS


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO         P

TOTAL             3.218      37.
BETWEEN           5.032      18.
 GROUPS           0.579       1.      0.1093      0.7433
 ERROR (G)        5.294      17.
WITHIN            1.500      19.
 TRIALS           0.658       1.      0.4088      0.5374
 G BY T           0.478       1.      0.2970      0.5985
 ERROR (T)        1.609      17.


GROUP MEANS

          1         2
      8.500     8.750

TRIAL MEANS

          1         2
      8.473     8.736

GROUPS BY TRIALS

          1         2
 1    8.272     8.727
 2    8.750     8.750
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 CLASSIFICATION SKILLS TEST

  1 DEPENDENT VARIABLE(S).
  2 GROUP(S).
  2 TRIAL(S) PER SUBJECT.
  1 CARD(S) PER SUBJECT.
  2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.    11 SUBJECTS.      EXPERIMENTAL 6 YEAR OLDS

GROUP 2.     8 SUBJECTS.      CONTROL 6 YEAR OLDS


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO         P

TOTAL             8.837      37.
BETWEEN           8.415      18.
 GROUPS           3.359       1.       0.3855      0.5491
 ERROR (G)        8.712      17
WITHIN            9.236      19.
 TRIALS          36.027       1.       4.3997      0.0487
 G BY T           0.267       1.       0.0326      0.8526
 ERROR (T)        8.188      17.


GROUP MEANS

          1        2
     15.227   14.625


TRIAL MEANS

          1        2
     14.000   15.947


GROUPS BY TRIALS

          1        2
 1   14.181   16.272
 2   13.750   15.500
```

V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER. VERSION OF JULY 1, 1969.

PUZZLES TEST

1 DEPENDENT VARIABLE(S).
2 GROUP(S).
2 TRIAL(S) PER SUBJECT.
1 CARD(S) PER SUBJECT.
2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1. 11 SUBJECTS. EXPERIMENTAL 6 YEAR OLDS

GROUP 2. 8 SUBJECTS. CONTROL 6 YEAR OLDS

VARIABLE 1 ANALYSIS.

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	1.988	37.		
BETWEEN	2.254	18.		
GROUPS	0.187	1.	0.0787	0.7785
ERROR (G)	2.376	17.		
WITHIN	1.736	19.		
TRIALS	6.736	1.	4.4155	0.0484
G BY T	0.325	1.	0.2133	0.6539
ERROR (T)	1.525	17.		

GROUP MEANS

1	2
7.954	7.812

TRIAL MEANS

1	2
7.473	8.315

GROUPS BY TRIALS

	1	2
1	7.454	8.454
2	7.500	8.125

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 TOTAL SCORE

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =                    '                    '

(50X,F3.0,7X,F3.0)

GROUP 1.   11 SUBJECTS.      EXPERIMENTAL 6 YEAR OLDS

GROUP 2.    8 SUBJECTS.      CONTROL 6 YEAR OLDS


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE     D.F.      F-RATIO         P

TOTAL           463.385      37.
BETWEEN         641.152      18.
 GROUPS         564.500       1.       0.8742      0.6344
 ERROR (G)      645.661      17.
WITHIN          294.973      19.
 TRIALS        3096.145       1.      20.9866      0.0004
 G BY T           0.355       1.       0.0024      0.9603
 ERROR (T)      147.529      17.


GROUP MEANS

              1         2
          167.318   175.125


TRIAL MEANS

              1         2
          161.578   179.631


GROUPS BY TRIALS

              1         2
 1        158.363   176.272
 2        166.000   184.250
```

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

BODY PARTS TEST

2 A FACET LEVELS
3 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

APPENDIX G

PRETEST-POSTTEST MEANS AND ANOVA SUMMARIES

BY I. Q. LEVELS OF SUBJECTS

20 SUBJECTS IN GROUP 1. EXPERIMENTAL LOW IQ

20 SUBJECTS IN GROUP 2. EXPERIMENTAL AVERAGE IQ

20 SUBJECTS IN GROUP 3. EXPERIMENTAL HIGH IQ

20 SUBJECTS IN GROUP 4. CONTROL LOW IQ

20 SUBJECTS IN GROUP 5. CONTROL AVERAGE IQ

20 SUBJECTS IN GROUP 6. CONTROL HIGH IQ

SOURCE	SS	DF	MS	F	P
TOTAL	6568.25	239			
BETWEEN SUBJECTS	5025.75	119			
A (VIEWERS NON VIEWERS)	82.87	1	82.87	3.182	0.0734
B (IQ)	1971.25	2	985.62	37.850	0.0000
A X B	3.06	2	1.53	0.058	0.9426
ERROR (BETWEEN)	2968.56	114	26.04		
WITHIN SUBJECTS	1542.50	120			
C (TEST OCCASION)	496.00	1	496.00	64.590	0.0000
A X C	4.50	1	4.50	0.585	0.5480
B X C	153.31	2	76.65	9.980	0.0002
A X B X C	13.12	2	6.56	0.854	0.5685
ERROR (WITHIN)	875.56	114	7.68		

MEANS FOR ALL EFFECTS

A MAIN

1	2
37.000	35.825

B MAIN

1	2	3
32.487	37.500	39.250

C MAIN

1	2
34.975	37.850

A BY B

	1	2	3
1	33.150	38.175	39.675
2	31.825	36.825	38.825

A BY C

	1	2
1	35.700	38.300
2	34.250	37.400

B BY C

	1	2
1	29.925	35.050
2	36.525	38.475
3	38.475	40.025

CELL MEANS (BLOCKS = C LEVELS)

	1	2	3
1	30.400	37.450	39.250
2	29.450	35.600	37.700

	1	2	3
1	35.900	38.900	40.100
2	34.200	38.050	39.950

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

LETTERS TEST.

2 A FACET LEVELS
3 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

20 SUBJECTS IN GROUP 1. EXPERIMENTAL LOW IQ

20 SUBJECTS IN GROUP 2. EXPERIMENTAL AVERAGE IQ

20 SUBJECTS IN GROUP 3. EXPERIMENTAL HIGH IQ

20 SUBJECTS IN GROUP 4. CONTROL LOW IQ

20 SUBJECTS IN GROUP 5. CONTROL AVERAGE IQ

20 SUBJECTS IN GROUP 6. CONTROL HIGH IQ

SOURCE	SS	DF	MS	F	P
TOTAL	36242.10	239			
BETWEEN SUBJECTS	27834.59	119			
A (VIEWERS NON VIEWERS)	752.59	1	752.59	3.762	0.0518
B (IQ)	4163.28	2	2081.64	10.405	0.0001
A X B	113.09	2	56.54	0.282	0.7583
ERROR (BETWEEN)	22805.62	114	200.04		
WITHIN SUBJECTS	8407.50	120			
C (TEST OCCASION)	4498.03	1	4498.03	148.786	0.0000
A X C	413.40	1	413.40	13.674	0.0006
B X C	37.28	2	18.64	0.616	0.5465
A X B X C	12.40	2	6.20	0.205	0.8167
ERROR (WITHIN)	3446.37	114	30.23		

MEANS FOR ALL EFFECTS

A MAIN

1	2
33.708	30.166

B MAIN

1	2	3
26.175	33.762	35.875

C MAIN

1	2
27.608	36.266

A BY B

	1	2	3
1	27.800	34.775	38.550
2	24.550	32.750	33.200

A BY C

	1	2
1	28.066	39.350
2	27.150	33.183

B BY C

	1	2
1	21.800	30.550
2	28.975	38.550
3	32.050	39.700

CELL MEANS (BLOCKS = C LEVELS)

	1	2	3
1	21.800	28.900	33.500
2	21.800	29.050	30.600

	1	2	3
1	33.800	40.650	43.600
2	27.300	36.450	35.800

```
V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

     FORMS TEST.

 2 A FACET LEVELS
 3 B FACET LEVELS
 2 C FACET LEVELS
 1 CARD(S)-PER-SUBJECT
 2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

   20 SUBJECTS IN GROUP  1.   EXPERIMENTAL LOW IQ

   20 SUBJECTS IN GROUP  2.   EXPERIMENTAL AVERAGE IQ

   20 SUBJECTS IN GROUP  3.   EXPERIMENTAL HIGH IQ

   20 SUBJECTS IN GROUP  4.   CONTROL LOW IQ

   20 SUBJECTS IN GROUP  5.   CONTROL AVERAGE IQ

   20 SUBJECTS IN GROUP  6.   CONTROL HIGH IQ
```

SOURCE	SS	DF	MS	F	P
TOTAL	1187.60	239			
BETWEEN SUBJECTS	843.60	119			
A (VIEWERS NON VIEWERS)	25.34	1	25.34	3.809	0.0504
B (IQ)	46.07	2	23.03	3.461	0.0336
A X B	13.52	2	6.76	1.016	0.3666
ERROR (BETWEEN)	758.65	114	6.65		
WITHIN SUBJECTS	344.00	120			
C (TEST OCCASION)	98.81	1	98.81	50.961	0.0000
A X C	9.60	1	9.60	4.951	0.0263
B X C	2.50	2	1.25	0.646	0.5304
A X B X C	12.02	2	6.01	3.100	0.0474
ERROR (WITHIN)	221.05	114	1.93		

```
MEANS FOR ALL EFFECTS

A MAIN
          1         2
      4.925     4.275

B MAIN
          1         2         3
      4.112     4.512     5.175

C MAIN
          1         2
      3.958     5.241

A BY B
```

	1	2	3
1	4.700	4.525	5.550
2	3.525	4.500	4.800

A BY C

	1	2
1	4.083	5.766
2	3.833	4.716

B BY C

	1	2
1	3.375	4.850
2	3.825	5.200
3	4.675	5.675

CELL MEANS (BLOCKS = C LEVELS)

	1	2	3
1	3.450	3.750	5.050
2	3.300	3.900	4.300

	1	2	3
1	5.950	5.300	6.050
2	3.750	5.100	5.300

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

NUMBERS TEST.

2 A FACET LEVELS
3 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

20 SUBJECTS IN GROUP 1. EXPERIMENTAL LOW IQ

20 SUBJECTS IN GROUP 2. EXPERIMENTAL AVERAGE IQ

20 SUBJECTS IN GROUP 3. EXPERIMENTAL HIGH IQ

20 SUBJECTS IN GROUP 4. CONTROL LOW IQ

20 SUBJECTS IN GROUP 5. CONTROL AVERAGE IQ

20 SUBJECTS IN GROUP 6. CONTROL HIGH IQ

SOURCE	SS	DF	MS	F	P
TOTAL	28910.41	239			
BETWEEN SUBJECTS	24777.41	119			
A (VIEWERS NON VIEWERS)	88.81	1	88.81	0.527	0.5241
B (IQ)	5460.59	2	2730.29	16.231	0.0000
A X B	52.31	2	26.15	0.155	0.8567
ERROR (BETWEEN)	19175.69	114	168.20		
WITHIN SUBJECTS	4133.00	120			
C (TEST OCCASION)	1938.00	1	1938.00	107.126	0.0000
A X C	117.59	1	117.59	6.500	0.0116
B X C	2.06	2	1.03	0.057	0.9444
A X B X C	13.00	2	6.50	0.359	0.7042
ERROR (WITHIN)	2062.34	114	18.09		

MEANS FOR ALL EFFECTS

A MAIN

1	2
31.808	30.591

B MAIN

1	2	3
24.700	32.887	36.012

C MAIN

1	2
28.358	34.041

A BY B

	1	2	3
1	25.750	32.850	36.825
2	23.650	32.925	35.200

A BY C

	1	2
1	28.266	35.350
2	28.450	32.733

B BY C

	1	2
1	21.875	27.525
2	29.925	35.850
3	33.275	38.750

CELL MEANS (BLOCKS = C LEVELS)

	1	2	3
1	21.900	29.300	33.600
2	21.850	30.550	32.950

	1	2	3
1	29.600	36.400	40.050
2	25.450	35.300	37.450

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

SORTING SKILLS.

2 A FACET LEVELS
3 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

20 SUBJECTS IN GROUP 1. EXPERIMENTAL LOW IQ

20 SUBJECTS IN GROUP 2. EXPERIMENTAL AVERAGE IQ

20 SUBJECTS IN GROUP 3. EXPERIMENTAL HIGH IQ

20 SUBJECTS IN GROUP 4. CONTROL LOW IQ

20 SUBJECTS IN GROUP 5. CONTROL AVERAGE IQ

20 SUBJECTS IN GROUP 6. CONTROL HIGH IQ

SOURCE	SS	DF	MS	F	P
TOTAL	1054.29	239			
BETWEEN SUBJECTS	696.79	119			
A (VIEWERS NON VIEWERS)	18.70	1	18.70	4.201	0.0401
B (IQ)	169.10	2	84.55	18.991	0.0000
A X B	1.45	2	0.72	0.163	0.8500
ERROR (BETWEEN)	507.53	114	4.45		
WITHIN SUBJECTS	357.50	120			
C (TEST OCCASION)	148.83	1	148.83	89.006	0.0000
A X C	16.53	1	16.53	9.888	0.0025
B X C	1.42	2	0.71	0.426	0.6597
A X B X C	0.07	2	0.03	0.022	0.9787
ERROR (WITHIN)	190.62	114	1.67		

MEANS FOR ALL EFFECTS

A MAIN

1	2
9.600	9.041

B MAIN

1	2	3
8.175	9.625	10.162

C MAIN

1	2
8.533	10.108

A BY B

	1	2	3
1	8.350	9.925	10.525
2	8.CCO	9.325	9.800

A BY C

	1	2
1	8.550	10.650
2	8.516	9.566

B BY C

	1	2
1	7.300	9.050
2	8.825	10.425
3	9.475	10.850

CELL MEANS (BLCCKS = C LEVELS)

	1	2	3
1	7.200	8.850	9.600
2	7.400	8.800	9.350

	1	2	3
1	9.500	11.CC0	11.450
2	8.600	9.850	10.250

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

RELATIONS TEST

2 A FACET LEVELS
3 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

20 SUBJECTS IN GROUP 1. EXPERIMENTAL LOW IQ

20 SUBJECTS IN GROUP 2. EXPERIMENTAL AVERAGE IQ

20 SUBJECTS IN GROUP 3. EXPERIMENTAL HIGH IQ

20 SUBJECTS IN GROUP 4. CONTROL LOW IQ

20 SUBJECTS IN GROUP 5. CONTROL AVERAGE IQ

20 SUBJECTS IN GROUP 6. CONTROL HIGH IQ

SOURCE	SS	DF	MS	F	P
TOTAL	914.29	239			
BETWEEN SUBJECTS	685.79	119			
A (VIEWERS NON VIEWERS)	3.50	1	3.50	0.874	0.6459
B (IQ)	224.85	2	112.42	28.071	0.0000
A X B	0.85	2	0.42	0.107	0.8982
ERROR (BETWEEN)	456.57	114	4.00		
WITHIN SUBJECTS	228.50	120			
C (TEST OCCASION)	63.03	1	63.03	48.431	0.0000
A X C	3.03	1	3.03	2.331	0.1255
B X C	9.97	2	4.98	3.831	0.0238
A X B X C	4.07	2	2.03	1.565	0.2118
ERROR (WITHIN)	148.37	114	1.30		

MEANS FOR ALL EFFECTS

A MAIN

1	2
8.066	7.825

B MAIN

1	2	3
6.662	8.175	9.000

C MAIN

1	2
7.433	8.458

A BY B

	1	2	3
1	6.700	8.350	9.150
2	6.625	8.000	8.850

A BY C

	1	2
1	7.666	8.466
2	7.200	8.450

B BY C

	1	2
1	5.875	7.450
2	7.725	8.625
3	8.700	9.300

CELL MEANS (BLOCKS = C LEVELS)

	1	2	3
1	5.850	8.150	9.000
2	5.900	7.300	8.400

	1	2	3
1	7.550	8.550	9.300
2	7.350	8.700	9.300

```
V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

     CLASSIFICATION SKILLS

  2 A FACET LEVELS
  3 B FACET LEVELS
  2 C FACET LEVELS
  1 CARD(S)-PER-SUBJECT
  2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

    20 SUBJECTS IN GROUP  1.   EXPERIMENTAL LOW IQ

    20 SUBJECTS IN GROUP  2.   EXPERIMENTAL AVERAGE IQ

    20 SUBJECTS IN GROUP  3.   EXPERIMENTAL HIGH IQ

    20 SUBJECTS IN GROUP  4.   CONTROL LOW IQ

    20 SUBJECTS IN GROUP  5.   CONTROL AVERAGE IQ

    20 SUBJECTS IN GROUP  6.   CONTROL HIGH IQ
```

SOURCE	SS	DF	MS	F	P
TOTAL	4897.73	239			
BETWEEN SUBJECTS	3217.73	119			
A (VIEWERS NON VIEWERS)	28.01	1	28.01	1.284	0.2582
B (IQ)	699.03	2	349.51	16.031	0.0000
A X B	5.22	2	2.61	0.119	0.8869
ERROR (BETWEEN)	2485.46	114	21.80		
WITHIN SUBJECTS	1680.00	120			
C (TEST OCCASION)	686.81	1	686.81	81.267	0.0000
A X C	24.06	1	24.06	2.847	0.0903
B X C	0.03	2	0.01	0.001	0.9981
A X B X C	5.64	2	2.82	0.334	0.7216
ERROR (WITHIN)	963.44	114	8.45		

```
MEANS FOR ALL EFFECTS

A MAIN
          1          2
     11.975     11.291

B MAIN
          1          2          3
      9.375     12.025     13.500

C MAIN
          1          2
      9.941     13.325

A BY B
```

	1	2	3
1	9.625	12.250	14.050
2	9.125	11.800	12.950

A BY C

	1	2
1	9.966	13.983
2	9.916	12.666

B BY C

	1	2
1	7.675	11.075
2	10.325	13.725
3	11.825	15.175

CELL MEANS (BLOCKS = C LEVELS)

	1	2	3
1	7.600	10.050	12.250
2	7.750	10.600	11.400

	1	2	3
1	11.650	14.450	15.850
2	10.500	13.000	14.500

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

PUZZLES

2 A FACET LEVELS
3 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

20 SUBJECTS IN GROUP 1. EXPERIMENTAL LOW IQ

20 SUBJECTS IN GROUP 2. EXPERIMENTAL AVERAGE IQ

20 SUBJECTS IN GROUP 3. EXPERIMENTAL HIGH IQ

20 SUBJECTS IN GROUP 4. CONTROL LOW IQ

20 SUBJECTS IN GROUP 5. CONTROL AVERAGE IQ

20 SUBJECTS IN GROUP 6. CONTROL HIGH IQ

SOURCE	SS	DF	MS	F	P
TOTAL	1351.58	239			
BETWEEN SUBJECTS	851.58	119			
A (VIEWERS NON VIEWERS)	17.06	1	17.06	3.013	0.0814
B (IQ)	183.63	2	91.81	16.211	0.0000
A X B	5.23	2	2.61	0.461	0.6370
ERROR (BETWEEN)	645.65	114	5.66		
WITHIN SUBJECTS	500.00	120			
C (TEST OCCASION)	209.06	1	209.06	84.922	0.0000
A X C	2.81	1	2.81	1.144	0.2869
B X C	2.03	2	1.01	0.412	0.6684
A X B X C	5.43	2	2.71	1.103	0.3358
ERROR (WITHIN)	280.65	114	2.46		

MEANS FOR ALL EFFECTS

A MAIN

1	2
6.558	6.025

B MAIN

1	2	3
5.100	6.600	7.175

C MAIN

1	2
5.358	7.225

A BY B

	1	2	3
1	5.275	6.750	7.650
2	4.925	6.450	6.700

A BY C

	1	2
1	5.516	7.600
2	5.200	6.850

B BY C

	1	2
1	4.175	6.025
2	5.550	7.650
3	6.350	8.000

CELL MEANS (BLOCKS = C LEVELS)

	1	2	3
1	4.100	5.800	6.650
2	4.250	5.300	6.050

	1	2	3
1	6.450	7.700	8.650
2	5.600	7.600	7.350

V03, ANALYSIS OF VARIANCE, THREE FACTOR DESIGN WITH REPEATED MEASURES ON ONE
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF MARCH 1, 1970

TOTAL SCORE

2 A FACET LEVELS
3 B FACET LEVELS
2 C FACET LEVELS
1 CARD(S)-PER-SUBJECT
2 VARIABLE(S) ON CARD 1
FACET NAMES SUPPLIED.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

20 SUBJECTS IN GROUP 1. EXPERIMENTAL LOW IQ

20 SUBJECTS IN GROUP 2. EXPERIMENTAL AVERAGE IQ

20 SUBJECTS IN GROUP 3. EXPERIMENTAL HIGH IQ

20 SUBJECTS IN GROUP 4. CONTROL LOW IQ

20 SUBJECTS IN GROUP 5. CONTROL AVERAGE IQ

20 SUBJECTS IN GROUP 6. CONTROL HIGH IQ

SOURCE	SS	DF	MS	F	P
TOTAL	285293.06	239			
BETWEEN SUBJECTS	225959.03	119			
A (VIEWERS NON VIEWERS)	4438.00	1	4438.00	3.261	0.0699
B (IQ)	65938.01	2	32969.00	24.226	0.0000
A X B	447.00	2	223.50	0.164	0.8495
ERROR (BETWEEN)	155136.03	114	1360.84		
WITHIN SUBJECTS	59334.00	120			
C (TEST OCCASION)	41660.00	1	41660.00	312.635	0.0000
A X C	1685.00	1	1685.00	12.644	0.0008
B X C	486.00	2	243.00	1.823	0.1640
A X B X C	312.00	2	156.00	1.170	0.3138
ERROR (WITHIN)	15191.00	114	133.25		

MEANS FOR ALL EFFECTS

A MAIN

1	2
143.641	135.041

B MAIN

1	2	3
116.787	145.087	156.150

C MAIN

1	2
126.166	152.516

A BY B

	1	2	3
1	121.350	147.600	161.975
2	112.225	142.575	150.325

A BY C

	1	2
1	127.816	159.466
2	124.516	145.566

B BY C

	1	2
1	102.000	131.575
2	131.675	158.500
3	144.825	167.475

CELL MEANS (BLOCKS = C LEVELS)

	1	2	3
1	102.300	132.250	148.900
2	101.700	131.100	140.750

	1	2	3
1	140.400	162.950	175.050
2	122.750	154.050	159.900

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 BODY PARTS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   26 SUBJECTS.      EXPERIMENTAL LOW IQ

GROUP 2.   23 SUBJECTS.      CONTROL LOW IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL            41.744       97.
BETWEEN          58.264       48.
 GROUPS          40.796        1.       0.6957      0.5866
 ERROR (G)       58.636       47.
WITHIN           25.561       49.
 TRIALS         622.565        1.      46.6897      0.0000
 G BY T           3.231        1.       0.2423      0.6303
 ERROR (T)       13.334       47.


GROUP MEANS

          1        2
     32.923   31.630


TRIAL MEANS

          1        2
     29.795   34.836


GROUPS BY TRIALS

          1        2
 1   30.230   35.615
 2   29.304   33.956
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 LETTERS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   26 SUBJECTS.      EXPERIMENTAL LOW IQ

GROUP 2.   23 SUBJECTS.      CONTROL LOW IQ


VARIABLE 1 ANALYSIS.

SOURCE       MEAN SQUARE      D.F.      F-RATIO         P

TOTAL            97.351       97.
BETWEEN         127.981       48.
 GROUPS         237.906        1.       1.8935      0.1720
 ERROR (G)      125.642       47.
WITHIN           67.346       49.
 TRIALS        1800.007        1.      66.6841      0.0000
 G BY T         231.320        1.       8.5696      0.0054
 ERROR (T)       26.993       47.


GROUP MEANS

          1         2
     27.730    24.608


TRIAL MEANS

          1         2
     21.979    30.551


GROUPS BY TRIALS

          1         2
 1   22.000    33.461
 2   21.956    27.260
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 FORMS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   26 SUBJECTS.      EXPERIMENTAL LOW IQ

GROUP 2.   23 SUBJECTS.      CONTROL LOW IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE     D.F.     F-RATIO        P

TOTAL             5.189     97.
BETWEEN           6.653     48.
 GROUPS          18.956      1.      2.9655     0.0879
 ERROR (G)        6.392     47.
WITHIN            3.755     49.
 TRIALS          68.612      1.     31.8084     0.0000
 G BY T          14.006      1.      6.4932     0.0135
 ERROR (T)        2.157     47.


GROUP MEANS

          1        2
      4.576    3.695


TRIAL MEANS

          1        2
      3.326    5.000


GROUPS BY TRIALS

          1        2
 1    3.384    5.769
 2    3.260    4.130
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 NUMBERS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   26 SUBJECTS.      EXPERIMENTAL LOW IQ

GROUP 2.   23 SUBJECTS.      CONTROL LOW IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL           110.937       97.
BETWEEN         183.062       48.
 GROUPS         139.281        1.       0.7569      0.6071
 ERROR (G)      183.993       47.
WITHIN           40.285       49.
 TRIALS        1058.004        1.      61.8016      0.0000
 G BY T         111.386        1.       6.5064      0.0134
 ERROR (T)       17.119       47.


GROUP MEANS

          1        2
     26.019   23.630


TRIAL MEANS

          1        2
     21.612   28.183


GROUPS BY TRIALS

          1        2
 1   21.730   30.307
 2   21.478   25.782
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 SORTING SKILLS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   26 SUBJECTS.      EXPERIMENTAL LOW IQ

GROUP 2.   23 SUBJECTS.      CONTROL LOW IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE     D.F.     F-RATIO        P

TOTAL             5.211      97.
BETWEEN           6.438      48.
 GROUPS           1.318       1.      0.2013     0.6599
 ERROR (G)        6.547      47.
WITHIN            4.010      49.
 TRIALS          96.010       1.     47.9758     0.0000
 G BY T           6.431       1.      3.2139     0.0759
 ERROR (T)        2.001      47.


GROUP MEANS

          1        2
      8.384    8.152


TRIAL MEANS

          1        2
      7.285    9.265


GROUPS BY TRIALS

          1        2
 1    7.153    9.615
 2    7.434    8.869
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 RELATIONS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   26 SUBJECTS.      EXPERIMENTAL LOW IQ

GROUP 2.   23 SUBJECTS.      CONTROL LOW IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL             4.315       97.
BETWEEN           5.960       48.
 GROUPS           0.209        1.       0.0345      0.8475
 ERROR (G)        6.083       47.
WITHIN            2.704       49.
 TRIALS          54.378        1.      33.0301      0.0000
 G BY T           0.744        1.       0.4524      0.5113
 ERROR (T)        1.646       47.


GROUP MEANS

              1        2
          6.788    6.695


TRIAL MEANS

              1        2
          6.000    7.489


GROUPS BY TRIALS

              1        2
 1        5.961    7.615
 2        6.043    7.347
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 CLASSIFICATION SKILLS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   26 SUBJECTS.      EXPERIMENTAL LOW IQ

GROUP 2.   23 SUBJECTS.      CONTROL LOW IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO         P

TOTAL            21.735       97.
BETWEEN          29.767       48.
 GROUPS          31.839        1.       1.0712      0.3066
 ERROR (G)       29.723       47.
WITHIN           13.867       49.
 TRIALS         326.950        1.      45.5000      0.0000
 G BY T          14.821        1.       2.0626      0.1540
 ERROR (T)        7.185       47.


GROUP MEANS

              1         2
         10.076     8.934


TRIAL MEANS

              1         2
          7.714    11.367


GROUPS BY TRIALS

              1         2
 1        7.884    12.269
 2        7.521    10.347
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 PUZZLES TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   26 SUBJECTS.      EXPERIMENTAL LOW IQ

GROUP 2.   23 SUBJECTS.      CONTROL LOW IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL             5.307       97.
BETWEEN           6.100       48.
 GROUPS           2.054        1.       0.3320      0.5740
 ERROR (G)        6.186       47.
WITHIN            4.530       49.
 TRIALS          86.367        1.      32.4995      0.0000
 G BY T          10.730        1.       4.0377      0.0474
 ERROR (T)        2.657       47.


GROUP MEANS

              1         2
          5.442     5.152


TRIAL MEANS

              1         2
          4.367     6.244


GROUPS BY TRIALS

              1         2
 1        4.192     6.692
 2        4.565     5.739
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 TOTAL SCORE

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   26 SUBJECTS.      EXPERIMENTAL LOW IQ

GROUP 2.   23 SUBJECTS.      CONTROL LOW IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO         P

TOTAL          1078.376      97.
BETWEEN        1560.739      48.
 GROUPS        2176.000       1.       1.4060      0.2400
 ERROR (G)     1547.649      47.
WITHIN          605.857      49.
 TRIALS       23327.847       1.     237.9101      0.0000
 G BY T        1750.656       1.      17.8541      0.0002
 ERROR (T)       98.053      47.


GROUP MEANS

            1         2
        121.942   112.500


TRIAL MEANS

            1         2
        102.081   132.938


GROUPS BY TRIALS

            1         2
 1      102.538   141.346
 2      101.565   123.434
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 BODY PARTS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   51 SUBJECTS.      EXPERIMENTAL AVERAGE IQ

GROUP 2.   46 SUBJECTS.      CONTROL AVERAGE IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE     D.F.     F-RATIO        P

TOTAL            17.170     193.
BETWEEN          25.135      96.
 GROUPS          11.437       1.      0.4524     0.5099
 ERROR (G)       25.279      95.
WITHIN            9.288      97.
 TRIALS         287.133       1.     44.5532     0.0000
 G BY T           1.616       1.      0.2507     0.6236
 ERROR (T)        6.444      95.


GROUP MEANS

              1        2
         37.127   36.641


TRIAL MEANS

              1        2
         35.680   38.113


GROUPS BY TRIALS

              1        2
 1       35.823   38.431
 2       35.521   37.760
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 LETTERS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   51 SUBJECTS.      EXPERIMENTAL AVERAGE IQ

GROUP 2.   46 SUBJECTS.      CONTROL AVERAGE IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO          P

TOTAL           157.045      193.
BETWEEN         230.371       96.
 GROUPS           0.187        1.       0.0008      0.9758
 ERROR (G)      232.794       95.
WITHIN           84.474       97.
 TRIALS        4671.688        1.     131.2369      0.0000
 G BY T         140.562        1.       3.9486      0.0469
 ERROR (T)       35.597       95.


GROUP MEANS

              1         2
          33.990    33.923


TRIAL MEANS

              1         2
          29.051    38.865


GROUPS BY TRIALS

              1         2
 1        28.274    39.705
 2        29.913    37.934
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 FORMS TEST

  1 DEPENDENT VARIABLE(S).
  2 GROUP(S).
  2 TRIAL(S) PER SUBJECT.
  1 CARD(S) PER SUBJECT.
  2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   51 SUBJECTS.      EXPERIMENTAL AVERAGE IQ

GROUP 2.   46 SUBJECTS.      CONTROL AVERAGE IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE     D.F.      F-RATIO         P

TOTAL             3.857     193.
BETWEEN           4.790      96.
 GROUPS           0.719       1.       0.1487      0.7024
 ERROR (G)        4.833      95.
WITHIN            2.932      97.
 TRIALS          80.541       1.      37.8449      0.0000
 G BY             1.779       1.       0.8359      0.6341
 ERROR            2.128      95.


GROUP MEANS

          1         2
      4.578     4.456


TRIAL MEANS

          1         2
      3.876     5.164


GROUPS BY TRIALS

          1         2
 1    3.843     5.313
 2    3.913     5.000
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 NUMBERS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   51 SUBJECTS.      EXPERIMENTAL AVERAGE IQ

GROUP 2.   46 SUBJECTS.      CONTROL AVERAGE IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO         P

TOTAL           111.972      193.
BETWEEN         185.231       96.
 GROUPS         254.906        1.       1.3816      0.2410
 ERROR (G)      184.498       95.
WITHIN           39.469       97.
 TRIALS        1924.347        1.      99.4850      0.0000
 G BY T          66.558        1.       3.4409      0.0632
 ERROR (T)       19.343       95.


GROUP MEANS

              1         2
         32.019    34.315


TRIAL MEANS

              1         2
         29.958    36.257


GROUPS BY TRIALS

              1         2
 1       28.313    35.725
 2       31.782    36.847
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 SORTING SKILLS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   51 SUBJECTS.      EXPERIMENTAL AVERAGE IQ

GROUP 2.   46 SUBJECTS.      CONTROL AVERAGE IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL             3.475      193.
BETWEEN           3.534       96.
 GROUPS           1.507        1.       0.4240      0.5236
 ERROR (G)        3.556       95.
WITHIN            3.417       97.
 TRIALS         154.275        1.      89.7988      0.0000
 G BY T          14.013        1.       8.1569      0.0054
 ERROR (T)        1.718       95.


GROUP MEANS

              1        2
          9.676    9.500


TRIAL MEANS

              1        2
          8.701   10.484


GROUPS BY TRIALS

              1        2
 1        8.529   10.823
 2        8.891   10.108
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 RELATIONS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   51 SUBJECTS.      EXPERIMENTAL AVERAGE IQ

GROUP 2.   46 SUBJECTS.      CONTROL AVERAGE IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL             2.375      193.
BETWEEN           3.175       96.
 GROUPS           0.000        1.      0.0000      1.0000
 ERROR (G)        3.209       95.
WITHIN            1.582       97.
 TRIALS          27.469        1.     20.9476      0.0000
 G BY T           1.452        1.      1.1073      0.2955
 ERROR (T)        1.311       95.


GROUP MEANS

              1        2
          8.058    8.054


TRIAL MEANS

              1        2
          7.680    8.432


GROUPS BY TRIALS

              1        2
 1        7.764    8.352
 2        7.586    8.521
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 CLASSIFICATION SKILLS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   51 SUBJECTS.      EXPERIMENTAL AVERAGE IQ

GROUP 2.   46 SUBJECTS.      CONTROL AVERAGE IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL            15.927      193.
BETWEEN          19.229       96.
 GROUPS           2.562        1.       0.1320      0.7179
 ERROR (G)       19.404       95.
WITHIN           12.659       97.
 TRIALS         470.126        1.      60.9938      0.0000
 G BY T          25.635        1.       3.3258      0.0678
 ERROR (T)        7.707       95.


GROUP MEANS

          1        2
     12.117   12.347


TRIAL MEANS

          1        2
     10.670   13.783


GROUPS BY TRIALS

          1        2
 1   10.215   14.019
 2   11.173   13.521
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 PUZZLES TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   51 SUBJECTS.      EXPERIMENTAL AVERAGE IQ

GROUP 2.   46 SUBJECTS.      CONTROL AVERAGE IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE     D.F.     F-RATIO        P

TOTAL             5.206     193.
BETWEEN           6.128      96.
 GROUPS           1.150       1.      0.1861     0.6710
 ERROR (G)        6.180      95.
WITHIN            4.293      97.
 TRIALS         196.005       1.     85.0213     0.0000
 G BY T           1.484       1.      0.6441     0.5701
 ERROR (T)        2.305      95.


GROUP MEANS

          1        2
      6.519    6.673


TRIAL MEANS

          1        2
      5.587    7.597


GROUPS BY TRIALS

          1        2
 1    5.431    7.607
 2    5.760    7.586
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 TOTAL SCORE

  1 DEPENDENT VARIABLE(S).
  2 GROUP(S).
  2 TRIAL(S) PER SUBJECT.
  1 CARD(S) PER SUBJECT.
  2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   51 SUBJECTS.      EXPERIMENTAL AVERAGE IQ

GROUP 2.   46 SUBJECTS.      CONTROL AVERAGE IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO         P

TOTAL          968.930      193.
BETWEEN       1398.942       96.
 GROUPS        161.500        1.        0.1143      0.7355
 ERROR (G)    1411.968       95.
WITHIN         543.350       97.
 TRIALS      36665.078        1.      231.4176      0.0000
 G BY T        988.429        1.        6.2386      0.0135
 ERROR (T)     158.436       95.


GROUP MEANS

            1         2
        144.088   145.913


TRIAL MEANS

            1         2
        131.206   158.701


GROUPS BY TRIALS

            1         2
 1      128.196   159.980
 2      134.543   157.282
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 BODY PARTS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   20 SUBJECTS.      EXPERIMENTAL HIGH IQ

GROUP 2.   26 SUBJECTS.      CONTROL HIGH IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO         P

TOTAL             8.827       91.
BETWEEN          12.617       45.
 GROUPS          12.781        1.      1.0132      0.3208
 ERROR (G)       12.613       44.
WITHIN            5.119       46.
 TRIALS          67.868        1.     19.3477      0.0001
 G BY T          13.288        1.      3.7881      0.0550
 ERROR (T)        3.507       44.


GROUP MEANS

              1         2
         39.675    38.923


TRIAL MEANS

              1         2
         38.391    40.108


GROUPS BY TRIALS

              1         2
 1       39.250    40.100
 2       37.730    40.115
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 LETTERS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   20 SUBJECTS.      EXPERIMENTAL HIGH IQ

GROUP 2.   26 SUBJECTS.      CONTROL HIGH IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.     F-RATIO        P

TOTAL           158.112       91.
BETWEEN         246.827       45.
 GROUPS         350.000        1.      1.4315      0.2361
 ERROR (G)      244.482       44.
WITHIN           71.326       46.
 TRIALS        1619.523        1.     44.2649      0.0000
 G BY T          51.648        1.      1.4116      0.2395
 ERROR (T)       36.587       44.


GROUP MEANS

              1         2
          38.550    34.615


TRIAL MEANS

              1         2
          32.130    40.521


GROUPS BY TRIALS

              1         2
 1        33.500    43.600
 2        31.076    38.153
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 FORMS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   20 SUBJECTS.      EXPERIMENTAL HIGH IQ

GROUP 2.   26 SUBJECTS.      CONTROL HIGH IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO        P

TOTAL             3.876      91.
BETWEEN           5.860      45.
 GROUPS           6.838       1.       1.1713     0.2848
 ERROR (G)        5.838      44.
WITHIN            1.934      46.
 TRIALS          21.043       1.      13.6318     0.0009
 G BY T           0.033       1.       0.0214     0.8790
 ERROR (T)        1.543      44.


GROUP MEANS

              1        2
          5.550    5.000


TRIAL MEANS

              1        2
          4.760    5.717


GROUPS BY TRIALS

              1        2
 1        5.050    6.050
 2        4.538    5.461
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 NUMBERS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   20 SUBJECTS.      EXPERIMENTAL HIGH IQ

GROUP 2.   26 SUBJECTS.      CONTROL HIGH IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE     D.F.     F-RATIO        P

TOTAL            89.005      91.
BETWEEN         146.855      45.
 GROUPS          19.171       1.      0.1280      0.7225
 ERROR (G)      149.757      44.
WITHIN           32.413      46.
 TRIALS         746.136       1.     44.6780      0.0000
 G BY T          10.051       1.      0.6018      0.5518
 ERROR (T)       16.700      44.


GROUP MEANS

          1        2
     36.825   35.903


TRIAL MEANS

          1        2
     33.456   39.152


GROUPS BY TRIALS

          1        2
 1   33.600   40.050
 2   33.346   38.461
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 SORTING SKILLS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   20 SUBJECTS.      EXPERIMENTAL HIGH IQ

GROUP 2.   26 SUBJECTS.      CONTROL HIGH IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE     D.F.      F-RATIO         P

TOTAL             2.687      91.
BETWEEN           3.112      45.
 GROUPS           9.269       1.       3.1185      0.0807
 ERROR (G)        2.972      44.
WITHIN            2.271      46.
 TRIALS          48.793       1.      40.5334      0.0000
 G BY T           2.739       1.       2.2756      0.1348
 ERROR (T)        1.203      44.


GROUP MEANS

          1         2
     10.525     9.884


TRIAL MEANS

          1         2
      9.434    10.891


GROUPS BY TRIALS

          1         2
 1    9.600    11.450
 2    9.307    10.461
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 RELATIONS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   20 SUBJECTS.      EXPERIMENTAL HIGH IQ

GROUP 2.   26 SUBJECTS.      CONTROL HIGH IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO         P

TOTAL             1.372       91.
BETWEEN           1.720       45.
 GROUPS           0.974        1.       0.5610      0.5357
 ERROR (G)        1.736       44.
WITHIN            1.032       46.
 TRIALS           7.924        1.       9.1465      0.0043
 G BY T           1.456        1.       1.6815      0.1987
 ERROR (T)        0.866       44.


GROUP MEANS

              1         2
          9.150     8.942


TRIAL MEANS

              1         2
          8.739     9.326


GROUPS BY TRIALS

              1         2
 1        9.000     9.300
 2        8.538     9.346
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 CLASSIFICATION SKILLS TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(5CX,F3.0,7X,F3.0)

GROUP 1.   20 SUBJECTS.      EXPERIMENTAL HIGH IQ

GROUP 2.   26 SUBJECTS.      CONTROL HIGH IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE      D.F.      F-RATIO         P

TOTAL            14.103       91.
BETWEEN          14.698       45.
 GROUPS          32.765        1.       2.2932      0.1333
 ERROR (G)       14.287       44.
WITHIN           13.521       46.
 TRIALS         251.133        1.      29.9191      0.0000
 G BY T           1.542        1.       0.1837      0.6737
 ERROR (T)        8.393       44.


GROUP MEANS

              1         2
          14.050    12.846

TRIAL MEANS

              1         2
          11.717    15.021

GROUPS BY TRIALS

              1         2
 1        12.250    15.850
 2        11.307    14.384
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 PUZZLES TEST

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   20 SUBJECTS.      EXPERIMENTAL HIGH IQ

GROUP 2.   26 SUBJECTS.      CONTROL HIGH IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE     D.F.      F-RATIO         P

TOTAL             4.104      91.
BETWEEN           5.343      45.
 GROUPS           8.455       1.      1.6033      0.2096
 ERROR (G)        5.273      44.
WITHIN            2.891      46.
 TRIALS          66.130       1.     44.6065      0.0000
 G BY T           1.637       1.      1.1047      0.2993
 ERROR (T)        1.482      44.


GROUP MEANS

              1         2
          7.650     7.038


TRIAL MEANS

              1         2
          6.456     8.152


GROUPS BY TRIALS

              1         2
 1        6.650     8.650
 2        6.307     7.769
```

```
V01, ANALYSIS OF VARIANCE WITH MULTIPLE GROUPS AND/OR TRIALS.
GEORGE PEABODY COLLEGE COMPUTER CENTER, VERSION OF JULY 1, 1969.

 TOTAL SCORE

 1 DEPENDENT VARIABLE(S).
 2 GROUP(S).
 2 TRIAL(S) PER SUBJECT.
 1 CARD(S) PER SUBJECT.
 2 SCORE(S) ON CARD 1.
ZERO SCORES (IF ANY) INCLUDED IN ANALYSES.
FORMAT CARD(S) =

(50X,F3.0,7X,F3.0)

GROUP 1.   20 SUBJECTS.      EXPERIMENTAL HIGH IQ

GROUP 2.   26 SUBJECTS.      CONTROL HIGH IQ


VARIABLE 1 ANALYSIS.

SOURCE      MEAN SQUARE     D.F.      F-RATIO         P

TOTAL           813.620      91.
BETWEEN        1216.444      45.
 GROUPS        1755.500       1.       1.4612      0.2313
 ERROR (G)     1204.102      44.
WITHIN          419.554      46.
 TRIALS       13033.283       1.      92.9515      0.0000
 G BY T          96.718       1.       0.6897      0.5842
 ERROR (T)      140.215      44.


GROUP MEANS

              1         2
          161.975   153.153


TRIAL MEANS

              1         2
          145.086   168.891


GROUPS BY TRIALS

              1         2
 1        148.500   175.050
 2        142.153   164.153
```